

Vale S.A.
Form 6-K
May 29, 2013
[Table of Contents](#)

United States
Securities and Exchange Commission

Washington, D.C. 20549

FORM 6-K

Report of Foreign Private Issuer

Pursuant to Rule 13a-16 or 15d-16

of the

Securities Exchange Act of 1934

For the month of

May 2013

Vale S.A.

**Avenida Graça Aranha, No. 26
20030-900 Rio de Janeiro, RJ, Brazil**

(Address of principal executive office)

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(Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.)

(Check One) Form 20-F Form 40-F

(Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1))

(Check One) Yes No

(Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7))

(Check One) Yes No

(Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.)

(Check One) Yes No

(If Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b). 82- .)

Table of Contents

Table of Contents:

Press Release
Signature Page

Table of Contents

1.1. Stament and Identification of the Responsible Individual

Name of the individual responsible for the content of the Reference Form	Murilo Pinto Ferreira
Position of responsible individual	Executive Director
Name of the individual responsible for the content of the Reference Form	Luciano Siani Pires
Position of responsible individual	CFO and Director of Investor Relations

The above-mentioned directors stated that:

- a. They have reviewed the Reference Form;

- b. All the information contained in the Reference Form complies with Instruction CVM No. 480, in particular Articles 14 through 19;

- c. All the information contained therein is an accurate, precise and complete representation of the economic and financial situation of the issuer and of the risks inherent to its activities and the securities issued by it.

Table of Contents

2.1/2.2 Identification and remuneration of Auditors:

Does it have auditor? YES
CVM (Securities Commission) Code 287-9
Type of Auditor Domestic
Name/Corporate name PricewaterhouseCoopers Auditores Independentes
CPF/CNPJ 61.562.112/0002-01
Service start date: 07/24/2009
Service end date:
Description of the service contracted Provision of professional services for auditing the annual report from Vale and controlled companies, both for domestic and international purposes, comfort letters for issuance of debts and equities at the Brazilian and international market, certification of internal controls in order to comply with Section 404 of Sarbanes-Oxley Act of 2002; provision of services related to the audit.
Total amount of the remuneration of independent auditors itemized per service In the fiscal year ended December 31, 2012, the fees received by company independent auditors for the provision of services to Vale and its affiliates were the following:

	Reais (thousand):
Financial audit:	17,278
Sarbanes-Oxley Act Audit:	2,986
Audit-related services:	1,142
Total independent audit expenses:	21,406
Other (**)	516 2% (*)
Total of services	21,922

(*) Percentage of independent audit service fees
(**) These services are retained for periods shorter than one year

Justification for replacement Reason submitted by the auditor in case of disagreement of the issuer justification

Name of the supervisor responsible	Period of provision of service	CPE	Address
João César de Oliveira Lima Junior	06/01/2012	744.808.477-15	Avenida José da Silva de Azevedo Neto nº 200 Bloco 3 - Torre Evolution IV rooms 101, 103 to 108 and 201 to 208, Barra da Tijuca, City and State do Rio de Janeiro-RJ. e-mail: joao.c.lima@br.pwc.com Phone: (21) 3232-6000
Marcos Donizete Panassol	07/24/2009 to 05/31/2012	063.702.238-67	Rua da Candelaria, 65/ 11,14,15 andares, Centro, Rio de Janeiro, RJ, Brasil, CEP 20091-020 Email:

2.3 Other relevant information

Vale has specific internal procedures for pre-approval of engagements for their external auditors in order to avoid conflict of interest or loss of objectivity by its independent external auditors.

Vale's policies regarding independent auditors and other services unrelated to external auditing are grounded in principles that safeguard their independence. In line with best corporate governance practices, all services provided by the independent auditors are pre-approved by the Supervisory Board, and the independent auditors provide us with an independence letter.

Table of Contents**3.1 Consolidated Financial Information**

(Reais/Unit)	Fiscal Year (12/31/2012)	Fiscal Year (12/31/2011)	Fiscal year (12/31/2010)
Shareholders equity	155,633,216,000.00	146,690,367,000.00	116,326,864,000.00
Total Assets	266,921,654,000.00	241,783,112,000.00	214,662,114,000.00
Realized Net Revenue/Temporary Revenue/Insurance Premium	93,511,477,000.00	103,195,407,000.00	83,225,006,000.00
Gross Income	41,514,098,000.00	62,706,537,000.00	49,468,940,000.00
Net Income	9,733,695,883.37	37,813,724,944.02	30,070,050,530.41
Number of Shares, excluding treasury	5,153,374,926	5,097,293,079	5,218,279,135
Asset Value of Share (in R\$/unit)	29.57	28.78	22.29
Earnings per Share	1.91	7.21	5.76

3.2 Non-Accounting measurements**a. value of non-accounting measurements**

The Company uses EBITDA as a non-accounting measurement. In 2012, the EBITDA of the Company was established in the amount of R\$ 27,086,636 thousand, while in 2011 and 2010 these amounts were R\$ 58,817,827 thousand and R\$ 46,378,648 thousand respectively.

b. reconciliations between amounts reported and the values of audited financial statements

In R\$ thousands	2012	2011	2010
Operating profit - EBIT	17,757,589	50,416,740	40,490,338
Depreciation / Amortization of goodwill	8,397,427	6,637,733	5,741,372
EBITDA (LAJIDA)	26,155,016	57,054,473	46,231,710
Dividends received	931,620	1,763,354	146,938
EBITDA (LAJIDA) - adjusted	27,086,636	58,817,827	46,378,648
Depreciation / Amortization of goodwill	(8,397,427)	(6,637,733)	(5,741,372)
Dividends received	(931,620)	(1,763,354)	(146,938)
Reduction in recoverable value of intangible assets	(4,001,986)		
Corporate results	1,240,589	1,857,458	(48,081)
Operations			(221,708)
Net financial income	(8,405,110)	(6,352,526)	(2,763,398)
Income and social contribution	2,641,850	(8,513,816)	(7,035,459)
Minority interests			
Net income	9,232,932	37,407,856	30,421,692
Loss (profit) to non-controlling shareholders	(500,764)	(405,868)	351,641
Profit to non-controlling shareholders	9,733,696	37,813,724	30,070,051

c. why the Company believes that this measurement is more appropriate for a correct understanding of its financial situation and results of operations

EBITDA is a measure of the company's cash generation, aiming to assist the assessment by the Administration of the performance of operations. The analysis of operating results through EBITDA has the benefit of canceling the effect of non-operating gains or losses generated by financial transactions or the effect of taxes.

We calculate the EBITDA according to the terms set forth in CMV Instruction no. 527, from October 4, 2012, as follows: the term's net results, plus the taxes over the profit, of the net financial expenses, of financial revenues, and of depreciation, amortization, and exhaustion.

We also calculate the adjusted EBITDA according to the net EBITDA from the corporate interest, from reduction in the recoverable asset of values, from non-recurrent items, and from depreciations, amortizations and exhaustions, plus dividends from joint ventures and sister companies. We understand that the adjusted EBITDA

Table of Contents

has a more precise measure of cash generation in the Company, since it excludes non-recurring and non-cash effects.

The consolidated cash generation measured by EBITDA (earnings before financial results, income from corporate interests, income tax and social contributions, depreciation, depletion and amortization, and plus dividends received) is not a BR GAAP/IFRS measurement and does not represent cash flow for the periods presented and therefore should not be considered as an alternative to net income (loss), as an isolated indicator of operating performance or as an alternative to cash flow as a source of liquidity. The EBITDA definition used by Vale may not be comparable with EBITDA, by definition, for other companies.

3.3 Events subsequent to the latest financial statements

Vale does not provide guidance in the form of quantitative predictions about its future financial performance. The Company seeks to disseminate as much information about its vision of the various markets where it operates, guidelines, and implementation strategies in order to provide investors in the capital markets a basis for the formation of expectations about its performance in the medium and long term.

The financial statements for the year ended December 31, 2012 were issued and filed with the CVM on February 27, 2013. Below is a description of subsequent events, which were included in the financial statements in compliance with the rules in IAS 24, approved by CVM^o 593/09:

Sales of Gold by-products

On February 5, 2013, Vale signed a contract with Silver Wheaton Corp. (SLW) to sell 25% of payable gold flow produced at the Salobo copper mine over its lifetime, and 70% of payable gold flow produced at the Sudbury nickel mines Sudbury Coleman, Copper Cliff, Creighton, Garson, Stobie, Totten and Victor 20 years.

Vale will receive an initial payment in the amount of US\$ 1.9 billion (approximately R\$ 3.8 billion), plus another ten million from SLW warrants with a unit price in the amount of US\$ 65 for ten years. The amount of US\$ 1.33 billion (approximately R\$ 2.64 billion) will be paid with 25% of the payable gold produced at Salobo, while US\$ 570 million (approximately R\$ 1,133 million) plus the ten million in SLW warrants that will be receive in exchange for the 70% of payable gold produced at the Sudbury mines.

Additionally, in the future, Vale will receive payments in cash for each ounce (oz) of gold delivered to SLW as per the terms of the agreements. The payments are equal to the lowest value obtained between US\$ 400.00 ounces (plus an annual inflation adjustment of 1% starting in 2016 in the case of Salobo) and the market price. Also, depending on its decision to expand the capacity of Salobo's copper ore processing to more than 28 Mtpa before 2031, Vale may receive an additional amount that will be set within a range of US\$ 67.00 (approximately R\$ 133.00) to US\$ 400.00 (approximately R\$ 795.00), depending on the time and extent of the expansion.

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Vale is not fully committed to the amount of gold to be delivered. SLW is entitled to a percentage of the gold produced at Salobo and Sudbury, and not to specific volumes. Vale will be subject to the risk of gold price fluctuations in the SLW deliveries only when the price drops below US\$ 400/oz.

Table of Contents

3.4 Policy for allocation of results

	Fiscal Year Ended December 31		
	2012	2011	2010
a. Rules on retention of profits	<p>Statutory Rule: According to Article 43 of the Bylaws, there should be a consideration in the proposal for distribution of profits of the formation of (i) Fiscal Benefit Reserve, to be constituted in the form of current legislation, and (ii) Investment Reserve for the purpose of ensuring the maintenance and development of activities that constitute the main object of the company, in an amount not exceeding 50% (fifty percent) of net income distributable up to the maximum capital of the company.</p>		
	<p>Practice adopted by the Company: Of the total of R\$ 9,733,695,883.37 were deducted (i) a legal reserve in the amount of R\$ 486,684,794.17, and (ii) the amount of R\$ 599,031,296.74 (6.2%) which was allotted for the Tax Incentives Reserve.</p>	<p>Practice adopted by the Company: Of the total R\$ 37,813,724,944.02, after the legal reserve deduction in the amount of R\$ 1,890,686,247.20 the amount of R\$ 25,864,330,899.53 (68.4%) was allotted for expansion / investments and R\$ 995,844,040.58 (2.6%) for the Tax Incentive Reserve. Of the total for the Reserve expansion / investment, 50% was sent based on statutory authorization, and 18.4% was destined for the reserve based on the capital budget approved by the AGM.</p>	<p>Practice adopted by the Company: Of the total of R\$ 36,073,218,330.41 after the deduction for the legal reserve in the amount of R\$ 1,803,660,916.52, the amount of R\$ 23,468,768,238.73 (65.1%), which was allotted for the expansion / investment Reserve and R\$ 1,022,135,742.36 (2.8%) for Tax Incentives. Of the total for the Reserve expansion / investment, 50% was based on statutory authorization and 15.1% was destined for the reserve based on the capital budget approved by the AGM.</p>
b. Arrangements for distribution of dividends	<p>Statutory Rule: According to Article 44 of the bylaws, at least 25% (twenty five percent) of annual net profits, adjusted according to the law, will be provided for the payment of dividends.</p> <p>Pursuant to Art. 5, §5 of the bylaws, the holders of preferred shares of Class A and special class, shall have their right to participate in the dividend to be distributed and calculated as per Chapter VII of the Bylaws, according to the following criterion:</p> <p>(a) Priority in the reception of dividends corresponding to (i) 3% (three per cent) at least of the net asset value of the share, calculated based on the financial statements analyzed that served as reference for the payment of dividends or (ii) 6% (six per cent) calculated on the part of the capital to which that class of share belongs, whichever is the greatest of these.</p> <p>(b) Right to participate in the distributed incomes, under equal conditions with common shares, after them, guaranteeing a dividend equal to the priority minimum set up pursuant to a above.</p>		

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	Practice adopted by the Company: the amount of 100% corresponding to the annual adjusted net income (not taking into consideration the expansion and investments reserve, in the amount of R\$ 740,519,589.90) was allocated to the payment of dividends.	Practice adopted by the Company: 25% of the adjusted annual net income was allocated to the payment of dividends.	Practice adopted by the Company: 27% of the adjusted annual net income was allocated to the payment of dividends.
c. Frequency of dividend distribution	In accordance with the Dividend Policy adopted by Vale, payments are made semiannually in the months of April and October.		
d. Restrictions to dividend distribution	n/a	n/a	n/a

Table of Contents**3.5 Distributions of dividends and retention of net income.**

(Reais)	Fiscal Year Ended December 31, 2012	Fiscal Year Ended December 31, 2011	Fiscal Year Ended December 31, 2010
Adjusted net income for dividend payments	8,647,979,792.46	34,927,194,656.24	33,247,421,671.53
Percentage of dividend over the adjusted net profit	100.000000	26.000000	29.000000
Rate of return in relation to equity	6.000000	26.000000	31.000000
Dividend distributed	8,647,979,792.46	9,062,863,757.00	9,778,653,433.00
Net income retained	R\$ 599,031,296.74	R\$ 26,860,174,940.11	R\$ 24,490,903,981.09
Date of approval of the retention	04/17/2013	04/18/2012	04/19/2011

01/01/2012 to 10/31/2012

Share Type	Share Class	Distributed Dividend	Amount (Unit)	Dividend Payment
Common		Interest on Capital	2,035,913,849.00	04/30/2012
Preferred	Preferred Class A	Interest on Capital	1,237,985,533.00	04/30/2012
Common		Interest on Capital	1,675,236,084.00	10/31/2012
Preferred	Preferred Class A	Interest on Capital	1,034,763,916.00	10/31/2012
Common		Mandatory Dividend	1,646,850,049.47	10/31/2012
Preferred	Preferred Class A	Mandatory Dividend	1,017,230,360.99	10/31/2012

01/01/2011 to 10/31/2011

Share Type	Share Class	Distributed Dividend	Amount (Unit)	Dividend Payment
Common		Mandatory Dividend	1,239,392,442.00	10/31/2011
Common		Mandatory Dividend	2,996,720,323.00	08/28/2011
Common		Interest on capital	1,372,512,161.00	04/30/2012
Preferred	Preferred Class A	Mandatory Dividend	761,470,697.00	10/31/2011
Preferred	Preferred Class A	Mandatory Dividend	1,858,179,678.00	08/26/2011
Preferred	Preferred Class A	Interest on Capital	834,588,457.00	04/30/2012

Table of Contents

01/01/2010 to 10/31/2010

Share Type	Share Class	Distributed Dividend	Amount (Unit)	Dividend Payment
Common		Interest on Capital	1,029,923,339.00	10/30/2010
Preferred	Preferred Class A	Interest on Capital	644,693,233.00	10/30/2010
Common		Interest on Capital	1,952,075,334.00	04/29/2011
Common		Interest on Capital	2,004,928,273.00	10/31/2011
Common		Interest on Capital	1,027,145,878.00	01/31/2011
Preferred	Preferred Class A	Interest on Capital	1,221,924,666.00	04/29/2011
Preferred	Preferred Class A	Interest on Capital	1,255,008,588.00	10/31/2011
Preferred	Preferred Class A	Interest on Capital	642,954,122.00	01/31/2011

3.6 Statement of Dividends on account of retained earnings or reserves

Dividends distributed to (in R\$ thousands):	Fiscal Year Ended December 31		
	2012	2011	2010
Retained Earnings			
Constituted Reserves	740,520		513,050

Table of Contents

3.7 Debt

Fiscal year	Total amount of the debt (of any nature)	Type of index	Debt Index	Description and reason for the use of another index of indebtedness
12/31/2012	111,290,000,000.00	Debt ratio	0.715000	
12/31/2012	0.00	Other indexes	1.700000	<p>Gross adjusted debt/EBITDA. Gross debt is the sum of Loans and short-term debt, Portion of the stock of long-term loans and Loans and long-term financing. The adjusted EBITDA (EBITDA) is calculated as described in section 3.2.b of this reference form, excluding non-recurrent items. For more information on how to reconcile the EBIDTA and the adjusted EBIDTA, see item 10.1 (a).</p> <p>The debt ratio Gross Debt / Adjusted EBITDA shows the approximate time necessary for a company to pay all its debt with its cash flow.</p> <p>Vale adopts the debt ratio gross debt / Adjusted EBITDA and interest coverage ratio Adjusted EBITDA / Interest expenses. These indexes are widely used by the market (rating agencies and financial institutions) and serve as a benchmark to assess the financial situation of Vale.</p>
12/31/2012	0.00	Other indices	14.500000	<p>Adjusted EBITDA / Interest expenses The adjusted EBIDTA is calculated as described in item 3.2.b of this Reference form, excluding non-recurrent items. For more information on how to reconcile the EBIDTA and the adjusted EBIDTA, see item 10.1</p>

Table of Contents

(a). Interest expenses include the sum of all appropriated or adjusted interests, paid or not, at certain times, that result from benefits debt.

The interest coverage index (Adjusted EBITDA / Interest Expenses) is used to determine a company's cash flow capacity to comply with its debt payments

Vale adopts the Gross debt/ adjusted EBIDTA debt rate and the adjusted EBIDTA/interest expenses interest coverage rate. These indices are widely used by the market (rating agencies and financial institutions) and they are a baseline to which to compare Vale's financial status.

3.8 Obligations according to the nature and maturity date:

Fiscal year (12/31/2012)

Type of debt	Less than 1 year (R\$)	Between 1 and 3 years (R\$)	Between 3 and 5 years (R\$)	Over 5 years (R\$)	Total (R\$)
Collateral	119,247,082	588,386,582	588,386,582	1,666,221,335	2,962,241,581
Floating Guarantee	0	0	0	0	0
Unsecured obligations	25,551,752,918	4,673,025,879	7,957,150,696	70,145,828,927	108,327,758,420
Total	25,671,000,000	5,261,412,460	8,545,537,278	71,812,050,262	111,290,000,000

Note: The value shown at 3.7 and 3.8 does not represent the Company's level of indebtedness, but represents the total of the obligations based on the addition of the outstanding and non-outstanding liabilities. The collateral debt amount is guaranteed with real assets. The remaining debt does not have any collateral. Debts that lack collaterals or floating guarantees, whether or not they have personal guarantees, have been classified as unsecured obligations.

Table of Contents

3.9 Other information that the Company deems relevant

Vale's main financial contracts, as well as the securities representing the circulating debt issued by the Company (for more information on such securities, see item 18.5 of this Reference Form) have clauses specifying advances maturity of pending amounts for the event of cross-default and/or cross acceleration from other financial contract signed with the same party and/or other financial contracts.

Table of Contents

4.1 - Description of risk factors

Risks relating to the Company

The mining sector is highly exposed to the cyclicity of global economic activities and requires significant capital investments.

The mining sector is primarily a supplier of industrial raw material. Industrial production tends to be the most cyclical and volatile component of global economic activities, affecting the demand for minerals and metals. At the same time, investment in mining requires a substantial amount of resources, in order to replenish the reserves, expand the production capacity, build infrastructure and preserve the environment. The sensitivity to the industrial production, along with the need for significant long-term capital investments, are important sources of risks to the financial performance and growth prospects of Vale and the mining industry in general.

The Company may not be able to adjust the volume of production in time or cost-effectively in response to changes in demand.

In periods of high demand, Vale's capacity to rapidly increase production is limited, which may make it impossible to meet the demand for its products. Moreover, the Company may be unable to complete expansions of existing projects and deployment of greenfield projects in time to take advantage of the increased demand for iron ore, nickel and other products. When demand exceeds its production capacity, the Company may meet its customers' excess demand by purchasing iron ore, iron ore pellets or nickel from its joint ventures or unrelated parties and resell them, which would increase its costs and reduce its operating margins. If it is unable to meet its customers' excess demand this way, Vale could lose customers. In addition, operating close to full capacity may expose the Company to higher costs, including demurrage fees due to capacity restraints in its logistics systems.

In contrast, operating at significant idle capacity in periods of weak demand may expose Vale to higher unit production costs since a significant portion of its cost structure is fixed in the short-term due to the need of intensive capital by mining operations. In addition, efforts to reduce costs during periods of weak demand may be limited by previous rules and labor and federal agreements.

Concessions, authorizations, licenses and permits are subject to expiration, restriction or renewal and to various other risks and uncertainties.

Vale's operations depend on the granting of authorization and concessions by regulatory organizations from the government of countries where Vale works. The Company is subject to the laws and regulations of several jurisdictions, which can change at a moment's notice. Such changes may require changes in Vale's technologies and operations, resulting in unexpected capital expenses.

Some of Vale's mining concessions are subject to fixed expiration dates and can only be renewed for a limited number of times, and for limited periods. In addition to mining concessions, Company may obtain various authorizations, licenses and permits from government and regulatory

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agencies regarding the planning, maintenance, and operation of the Company's mines, as well as its logistics infrastructure, which may be subject to fixed due dates or to periodic reviews or renewals. Although the Company expects renewals to be granted when and as requested, there is no guarantee that such renewals will be granted as usual, as well as there is no guarantee that new conditions will not be imposed in this regard. Fees due by mining concessions may substantially increase over time in comparison with the original issuance of each operating license. If that is the case, the Company's business objectives can be affected by the costs of maintenance or renewal of its mining concessions. Thus, it is necessary to continually assess the mineral potential of each mining concession, especially at the time of renewal, in order to determine if maintenance costs of mining concessions are justified by the results of future operations, and thus be able to let some concessions expire. There are no guarantees that such concessions will be granted under terms favorable to the Company, as well as there are no guarantees as to estimate future mining activities or operation goals.

In many jurisdictions where the Company has exploration projects, it may be required to return to the Government a certain portion of the area covered by the operating license as a condition for obtaining a mining concession. This retrocession obligation may lead to a substantial loss of part of the mineral deposit originally identified in its feasibility studies. For more information on mining concessions and similar rights, see [Regulatory Issues](#).

Table of Contents

The Company's projects are subject to risks that may result in increased costs or delay in their implementation.

The Company is investing to maintain and increase its production and logistics capacity, as well as to expand the portfolio of minerals produced. Vale regularly analyses the economical viability of its projects. As a result of this analysis, the Company may decide to postpone, stay, or interrupt the execution of some of them. Its projects are subject to various risks that may adversely affect its growth and profitability prospects, including:

- It may have to deal with delays or costs higher than expected in order to obtain the necessary equipment or services and to implement new technologies to build and operate a project.
- Its efforts to develop projects according to the schedule may be hampered by the lack of infrastructure, including reliable telecommunication services and power supply.
- Suppliers and other corporate contractors may not comply with their contractual obligations to the Company.
- The Company may experience unexpected weather conditions or other force majeure events.
- The Company may fail to obtain, experience delays or have higher than expected costs in obtaining the necessary permits and licenses for building a project.
- Changes in market conditions or legislation may make the project less profitable than expected at the time its operation begins.
- There may be accidents or incidents during project implementation.
- It may be difficult to find appropriate skilled professionals.

Operational problems may materially and negatively affect the Company's business and financial performance.

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An inefficient project management and operational failures may lead to the suspension or reduction of the Company's operations, causing an overall decrease of productivity. An inefficient project management can mean that the Company is not able to continuously develop its activities. Operational incidents may result in important failures in plant and machinery.

Table of Contents

There are no guarantees that project management will be efficient or that other operational problems will not occur. Any damage to the Company's projects or delays in its operations caused by inefficient project management or operational incidents may materially and negatively affect its business and operating results.

The Company's business is subject to various operational risks that can adversely affect the results of its operations, such as:

- Unexpected weather conditions or other force majeure events may occur.

- Adverse mining conditions may delay or hinder its ability to produce the expected amount of minerals and to meet the specifications required by customers, which may lead to price adjustment.

- There may be accidents or incidents during the business operations, involving its mines, plants, railways, ports and vessels.

- There may be delays or disruptions in the transportation of its products, including railways, ports and vessels.

- Some of its projects are located in regions where tropical diseases, AIDS and other communicable diseases represent a major public health issue and pose risks to the health and safety of its employees.

- Labor disputes may disrupt its operations from time to time.

- Changes in the market or legislation may affect the economic perspectives of an operation making it incompatible with the Company's business strategy.

The Company's business may be negatively affected if its counterparties fail to meet their obligations.

Customers, suppliers, corporate contractors and other counterparties may not perform the contracts and obligations assumed before the Company, which may have an adverse impact on the Company's operations and financial results. The ability of its suppliers and customers to meet their obligations may be adversely affected in times of financial stress or economic recession. Suppliers are also subject to capacity constraints in times of high demand, which may affect their ability to meet their obligations to Vale.

The Company currently operates and has projects related to significant parts of its pelletizing, bauxite, nickel, coal, copper and steel businesses through joint ventures with other companies. Important parts of its investments in power and its oil and gas projects are operated through consortia. Its forecasts and plans for these joint ventures and consortia assume that its partners will observe their obligations to make capital contributions, purchase products, management, and, in some cases, provide skilled and competent personnel. If any of its partners fails to observe its commitments, the affected joint venture or consortium may not be able to operate in accordance with its business plans, or the Company may have to increase the level of its investment to implement these plans.

Table of Contents

The Company's business is subject to environmental, health and safety incidents or accidents.

The Company has operations involving the use, handling, elimination and disposal of hazardous materials into the environment and the use of natural resources. Besides, the mining sector is generally subject to significant risks and hazards, including the imminent risk of fire or explosion, gas leak, leak of pollutants or other hazardous materials, incidents involving rock slides in underground mining operations, incidents involving mobile equipment or machinery, etc. These situations may be caused by accidents or violation of operational standards, resulting in a significant incident, including damage or destruction of mineral assets or production facilities, injury or death of employees, damages to the environment, production delays, financial losses and possible legal liabilities. Vale has rules on environment, health and safety, and management systems in place to minimize the risk of such incidents or accidents. Despite its rules, policies and controls, its operations remain subject to incidents or accidents that may adversely affect its business or reputation.

Natural disasters can cause serious damages to the Company's operations and projects in countries where it operates and/or may have a negative impact on its sales to countries adversely affected by such disasters.

Natural disasters such as windstorms, floods, earthquakes and tsunamis can adversely affect the Company's operations and projects in countries where it operates, as well as possibly generating a reduction in sales to countries negatively affected by such disasters which include, among other factors, which may lead to impacts on the power supply and destruction of industrial and infrastructure facilities. Furthermore, although the physical impacts of climate change on its businesses still are highly uncertain, the Company may experience changes in rainfall patterns, water shortages, rising sea levels, increased intensity of storms and floods as a result of climate change, which can adversely affect its operations. In the past few years, at specific occasions, the Company has determined that force majeure events have happened due to severe climate changes.

The Company may not have an adequate insurance coverage for certain business risks.

The Company's businesses are generally subject to numerous risks and uncertainties that could result in damage or destruction of mineral properties, facilities and equipment. Vale's insurance against risks that are typical in such business may not provide adequate coverage. Risk insurance (including liability for environmental pollution or certain hazards or interruptions of certain business activities) may not be available at a reasonable cost or at all. Even when it is available, the Company can self-insure by determining that this will have a more appropriate cost-benefit. As a result, accidents and other negative events involving its mining, production or logistics facilities may have an adverse effect on its operations.

The Company reserve estimates may materially differ from the mineral quantities that it may be able to actually recover; its estimates of mine life may prove inaccurate; and market price fluctuations and changes in operating and capital costs may render certain ore reserves uneconomical to mine.

Company reported ore reserves correspond to estimated quantities the Company determines to be economically mined and processed under present and anticipated conditions to extract their mineral content. There are numerous uncertainties inherent in estimating quantities of reserves and in projecting potential future rates of mineral production, including factors beyond Company control. Reserve reporting involves estimating deposits of minerals that cannot be measured in an exact manner, and the accuracy of any reserve estimate is based on the quality of available

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data and engineering and geological interpretation and judgment. Thus, no assurance can be given that the amount of ore indicated in those reports will be effectively recovered or that it will be recovered at the rates anticipated by the Company. Reserve estimates and estimates of mine life may require revisions based on actual production experience and other factors. For example, fluctuations in the market prices of minerals and metals, reduced recovery rates or increased operating and capital costs due to inflation, exchange rates, changes in current regulations or other factors may render proven and probable reserves uneconomical to exploit and may ultimately result in a restatement of reserves. This reformulation can affect the rates of depreciation and amortization and cause a negative impact on the Company's financial performance.

The Company may not be able to replenish its reserves, which could adversely affect its mining prospects.

The Company is engaged in mineral exploration, which is highly speculative in nature, involves several risks and is frequently non-productive. Its exploration programs, which involve significant capital expenditures, may fail to result in the expansion or replenishment of reserves depleted by current

Table of Contents

production. If the Company fails to develop new reserves, it will not be able to sustain its current level of production beyond the remaining lives of its existing mines.

The drilling and production risks may adversely affect the mining process.

Once mineral deposits are discovered, it can take a number of years from the initial phases of exploration until production is possible, during which the economic feasibility of production may change. Substantial time and expenditures are required to:

- Determine mineral reserves through drilling;
- Determine appropriate mining and metallurgical processes for optimizing the recovery of metal contained in ore;
- Obtain environmental and other required licenses;
- Construct the necessary mining and processing facilities and create the infrastructure required for the development of new projects (greenfield); and
- Obtain the ore or extract the minerals from the ore.

If a project proves not to be economically feasible by the time the Company is able to explore it, the Company may sustain significant damages and be compelled to make reductions. In addition, potential changes or complications involving metallurgical and other technological processes arising during the life of a project may result in delays cost overruns that may render the project not economically feasible.

The Company faces rising extraction costs over time as mineral reserves deplete.

Mineral reserves are gradually depleted in the ordinary course of a mining operation. As mining progresses, distances to the primary crusher and to waste deposits become longer, pits become steeper, open mines become underground mines, and underground operations become deeper. Additionally, for some types of reserves, the mining level is reduced and hardness increases in greater depths. As a result, over time, the Company usually needs to increase the cost of extraction related to each mine. Many of its mines have been operated for extended periods of time and it is likely that the Company needs to increase extraction costs per unit in these operations in particular.

Table of Contents

Labor disputes may disrupt the Company's operations from time to time.

The Company has a substantial number of employees and some subcontractors' employees are represented by unions and are subject to collective bargaining agreements that are subject to periodic negotiation.

Strikes and other labor disruptions in any of the Company's activities could adversely affect the operation of its facilities, the completion period and the cost of main projects. For more information on labor relations, see item 14 of this Reference Form. Moreover, work stoppages involving unrelated parties that provide goods or services to the Company may adversely affect.

The Company may face shortages of equipment, services and skilled personnel.

The mining sector has faced global shortage of mining and construction equipment, spare parts, contractors and other skilled personnel during periods of high demand for minerals and metals and intensive development of mining projects. The Company may experience longer periods for the supply of mining equipment and face problems with the quality of outsourced engineering, construction and maintenance services. The Company competes with other mining companies in relation to the hiring of highly skilled managers and staff with relevant technical and mining expertise, and may not be able to attract and retain such people. Shortages at peak periods can cause a negative impact on its operations, resulting in higher costs with investments, production disruptions, higher inventory costs, project delays and possible reduction in production and revenue.

Higher costs of energy or energy shortages may adversely affect the Company's business.

Energy costs are a significant component of the Company's production cost, representing 12.1% of the total cost of goods sold in 2012. To meet its energy demand, the Company depends on the following resources: Oil byproducts which accounted for 48% of all energy needs in 2012, electricity (21%), coal (9%), natural gas (15%) and other sources of energy (7%), using amounts converted to tons of oil equivalent (TOE).

Expenses with fuel accounted for 8.5% of its cost with goods sold in 2012. Increases in oil and gas prices negatively affect profit margins regarding its logistics services, mining business, and iron ore pelletizing, fertilizers and nickel.

Expenses with electricity accounted for 3.6% of its total cost of goods sold in 2012. If the Company cannot ensure safe access to electricity at affordable prices, it may be forced to reduce production or may experience higher production costs, both of which can adversely affect its operating results. The Company faces the risk of energy shortages in countries where it has operations and projects, due to excessive demand or adverse weather conditions such as floods or droughts.

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Electricity shortages have already occurred worldwide, and there is no guarantee that growth in capacity of power generation in countries where the Company operates is sufficient to meet increased consumption in the future. Future shortages and government efforts to respond to or prevent electricity shortages may have a negative impact on the cost or supply of electricity to the Company's operations.

Table of Contents

Exchange rate volatility of currencies in which the Company conducts its operations relative to U.S. dollars could adversely affect its financial condition and operating results.

A substantial portion of the Company's revenues and debt is expressed in U.S. dollars, and exchange rate fluctuations can result in (i) gains or losses regarding its net debt expressed in U.S. dollars and its accounts receivable and (ii) gains or losses in market value regarding its currency derivatives used to stabilize its cash flow in U.S. dollars. In 2011 and 2012, the Company had monetary losses in the amount of US\$ 1,915 million and US\$ 1,382 million, respectively; in 2010, Vale had monetary gains of US\$ 102 million. Moreover, the exchange rate volatility of the Brazilian real, Canadian dollar and other currencies against the U.S. dollar affects the Company's results, since most of its goods are sold is expressed in US dollar, and most of the cost, expenses, and investments is expressed primarily in real (57% in 2012) and Canadian dollars (14% in 2012). The Company expects that currency fluctuations will continue to affect its revenues, expenses and cash flow.

The significant volatility in currency exchange rates may also result in the interruption of foreign exchange markets and may limit the Company's ability to transfer or exchange certain currencies into US dollars and other currencies for the purpose of making timely payments of interest and principal on its debts. Central banks and governments of countries where the Company operates may impose restrictive foreign exchange policies in the future and levy taxes on foreign exchange transactions.

The integration between the Company and acquired companies, that are an important part of the Company's strategies, may be more difficult than anticipated.

The Company may not be able to successfully integrate its acquired businesses. The Company has partially increased its business through acquisitions and part of its future growth may depend on acquisitions. The integration of acquired businesses may take longer than expected and the costs related to the integration of those businesses may be higher than expected. Besides, if the focus on this integration process, following acquisitions, impacts the performance of its existing business, the company's results and operations may be adversely affected. Completed acquisitions may not result in increased revenues, cost economy or operational benefits as initially expected at the time of conception. Acquisitions may lead to substantial costs as a result, for example, unexpected contingencies arising out of acquired enterprises, impossibility of maintaining a key team, inconsistent standards, checks, procedures and policies between the Company and the acquired business, which may adversely affect its financial condition and the results of operations. Additionally, management focus may be deviated from ordinary responsibilities to integration-related issues.

The Company is involved in several lawsuits that may adversely affect its business, if rulings are not favorable to the Company.

The Company is involved in several lawsuits in which plaintiffs claim substantial amounts of money. Although the Company is vigorously contesting these lawsuits, the outcome of these lawsuits is uncertain and may result in obligations that may materially and negatively affect its business and the value of its shares, ADSs and HDSs. Moreover, under Brazilian law, a taxpayer who wishes to make a claim against a specific tax in court should normally offer collaterals to the court, in the corresponding amount in order to suspend collection. In some claims where the Company questions application and/or payment of specific taxes, the Company may be required to provide collateral or some form of security to the court and, depending on the nature, value and scope of such collateral or security, this can cause a significant impact on its business. For more information, see item 4.3 of this Reference Form.

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Company's governance processes and compliance with its obligations may fail to avoid regulatory fines and damages to its reputation.

The Company operates in a global environment and its activities extend across multiple jurisdictions and complex regulatory structures with an increase in its legal obligations around the world. Its governance process and compliance with obligations, which include the identification and mitigation of risks through internal controls focused in the information published in their own financial reports, may not be able to

Table of Contents

avoid future violations of the law and accounting and governance standards. The Company may be subject to violations of its Code of Ethical Conduct, business conduct protocols and fraudulent and dishonest behavior by its employees, contractors and other agents. Failure by the Company to comply with applicable laws and other rules can result in fines, loss of operating licenses and damages to its reputation.

Investors may find it difficult to comply with any judgment rendered outside Brazil against the Company or any of its affiliates.

Company investors can be located in jurisdictions outside Brazil and may file claims against the Company or management members with courts within their jurisdictions. The company is a Brazilian company and most of its officers and members of the Board of Directors are Brazilian residents. Most of Company's assets and the assets of its officers and members of the Board of Directors will be probably located in jurisdictions other than the jurisdictions of its investors. The investors, in their jurisdictions, may not be able to serve notices against the Company or its managers resident outside their jurisdictions. Additionally, foreign judicial orders are enforceable in Brazilian courts, without reconsidering the merits provided that they are previously confirmed by the Brazilian Superior Court of Justice, which confirmation will be granted as long as such judgment: (a) meets all the formal requirements to be enforced pursuant to the legislation in force in the country where it was rendered; (b) has been rendered by a competent court after due process against the company or after sufficient evidence of contempt of court by the company, pursuant to the legislation in force; (c) is not subject to appeal; (d) has been authenticated by the Brazilian consulate in the country where it was rendered and is accompanied by a sworn translation into Portuguese; and (e) is not contrary to the sovereignty of Brazil, its public policy or morality. Therefore, investors may not obtain favorable decisions outside their jurisdictions in judicial processes filed against the Company or its managers passed by courts in their jurisdictions with decisions on the basis of the legislation in force in those jurisdictions.

Rules on sea transportation of iron ore fines may affect the Company's operations.

A portion of the Company production takes place in the form of iron ore that is not concentrated. This type of ore is sometimes compared to fines, which are small ore particles. Studies have analyzed whether these ores could begin to behave like a fluid when transported under high moisture conditions, although the Company has not had a record of any similar event for over 50 years, which is evidence of the Company's safe transportation of said products. This can cause the load to be less stable, presenting potential risks to navigation. Operational risks depend on many factors including the characteristics of the fines, the circumstances in which they are stored, loaded, and transported and the type of vessel. To manage these risks, the sea transportation industry and insurers generally follow the rules adopted by the International Maritime Solid Bulk Cargoes Code (IMSBC), but these rules do not currently address the transport of non-concentrated iron ore fines that the Company produces in its mines in province of Carajás, in its North System. Potential changes to the rules in effect are currently being assessed by the International Maritime Organization (IMO). The Company believes that the safety of its navigation practices is evidenced by its long history of safe operations, but changes to these rules could require the Company to adjust its practices as far as the handling or transportation of the Carajás production is concerned, and these measures could increase costs, require new investments and even limit the volume of exports of those products.

Risks relating to Company's controlling shareholder or parent group

The Company's controlling shareholder exerts significant influence over Vale and the Brazilian government holds certain veto rights.

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On December 31, 2012, Valepar S.A. (Valepar) held 52.7% of the outstanding common shares and 32.4% of the Company's total outstanding capital. As a result of its stock ownership, Valepar elects the majority of members of the Board of Directors and can control the outcome of some actions requiring shareholder approval. For a description of the Company's ownership structure and of Valepar shareholders' agreement, see item 15 of this Reference Form.

The Brazilian government owns 12 special class preferred shares (golden shares) of Vale, granting limited veto power over certain matters regarding the Company, such as changes of corporate name, location of main office and corporate purpose related to mining exploration. For a detailed description on the veto power of golden shares, see item 18.1 in the Reference Form.

Table of Contents

Risks relating to Company suppliers

For information about risks relating to Company suppliers, please see Risk Factors under "The Company face shortages of equipment, services and skilled personnel". The higher energy cost or lack of energy could adversely affect Company business, above.

Risks relating to Company customers

Company business could be adversely affected by demand reduction for products manufactured by its customers, including steel (for iron ore and coal operations), stainless steel (for nickel operations), and agricultural commodities (for fertilizer operations).

The demand for iron ore, coal and nickel depends on global demand for steel. Iron ore and iron ore pellets, which together accounted for 68.2% of Company operating revenues in 2012, are used in the production of carbon steel. Nickel, which accounted for 8.5% of Company operating revenues in 2012, is mainly used in the production of stainless and alloy steels. Demand for steel depends heavily on global economic conditions as well as on a series of regional and sectorial factors. The prices of the different types of steel and the performance of the steel industry as a whole are highly cyclical and volatile and these business cycles in this sector affect the demand for and the prices of its products. Besides, the vertical integration of the steel industry and the use of scrap could reduce the global transoceanic trade of iron ore and primary nickel. The demand for fertilizer is affected by agricultural commodities' global prices. A sustained decline in the price of one or more agricultural commodities may cause an adverse impact on the Company's fertilizer business.

Risks relating to the fields of economy in which the Company operates

Prices charged by the Company, including prices of iron ore, nickel and copper, are subject to volatility.

The iron ore prices are defined based on a variety of pricing options, which generally use spot price indices as a basis for determining prices to customers. Nickel and copper prices are based on prices reported for these metals in the commodity exchange markets, such as the London Metal Exchange (LME) and the New York Mercantile Exchange (NYMEX). Company products' prices and revenues for these products are therefore volatile and can adversely affect its cash flow. World prices for these metals are subject to significant fluctuations and are affected by many factors, including effective and expected global macroeconomic and political conditions, levels of supply and demand, availability and cost of substitutes, inventory levels, investments from commodities funds, and actions of participants in commodities markets.

The nickel market is going through strong supply growth in the past few years, which has been pushing prices in 2012. Nickel refining in China, in particular that of imported nickel, has had an estimated growth of 390,000 metric tons from 2006 to 2012. In 2012, the estimated production of pig iron nickel and iron nickel in China has increased by 23%, representing 20% of the world's nickel output. Other long term nickel production outside China have also been ramped up production since 2012, and the increase in nickel supply may continue to grow in the next few years due to ramping up in new nickel projects.

Risks relating to the regulation of the sectors in which the Company operates

Regulatory, political, economic and social conditions in the countries in which the Company has operations or projects could adversely affect its business and the market prices of its securities.

Vale's financial performance may be negatively affected by regulatory, political, economic and social conditions in the countries where the Company has significant operation. In many of these locations, Vale is open to risks, such as renegotiations, annulments or changes imposed by existing contracts, property expropriation or nationalization, currency exchange, legislation changes, local regulations and policies, political instability, bribery, extortion, corruption, civil war, acts of war, guerrilla activities, terrorism. The Company is also faces the risk of having to submit to foreign jurisdiction or arbitration or to be forced to

Table of Contents

execute a court order against a sovereign nation within its own territory. Company operations rely on authorizations and concessions from governmental regulatory agencies in the countries where the company operates. For further details about the authorizations and concessions that its operations rely on, please refer to item 7 in this Reference Form. The Company is subject to laws and regulations in many jurisdictions that can experience changes at any time, and changes of laws and regulations may require modifications in its technologies and operations and result in unexpected capital expenditures.

Actual or potential political or social changes and changes in economic policy may undermine investors' confidence which could hamper investments and therefore reduce still negatively affect economic and other conditions under which the Company operates, so as to adversely affect its business.

Disagreements with local communities where the Company operates may have a negative impact on its business and reputation.

Legal disputes with communities where the Company operates may periodically appear. Although the Company contributes to local communities through taxes, employment and business opportunities and social programs, community expectations are complex and involve multiple stakeholders with different interests. Some of the operations and mineral reserves are located on lands or near lands owned or used by indigenous or aboriginal tribes, or other groups. This indigenous population may have rights to review or participate in the management of natural resources, and the Company negotiates with them in order to minimize the impacts of operations or to have access to their lands.

Disagreements or disputes with local groups, including indigenous or aboriginal tribes, may cause delays or interruptions in operations, adversely affect the Company's reputation or hinder its ability to work in mineral reserves and conduct operations. Protesters have acted in the past to disrupt Company operations and projects and may continue to do so in future. Although the Company defends itself vigorously against illegal acts, future attempts by protestors to cause harm to its operations could have a material adverse effect on its business.

The Company may experience adverse effects of changes in government policies, including the imposition of new taxes or royalties on mining activities.

Mining is subject to government regulations in the form of specific taxes and royalties, which can have a significant impact on Company operations. In the countries where the Company operates, governments may impose or change existing taxes or royalties, or modify the basis on which they are calculated, in a manner unfavorable to the Company. Governments that have undertaken to create a stable tax and regulatory environment may shorten the duration of these commitments.

It is also possible that the Company must comply with internal benefit requirements in some countries, such as local processing rules or increases in non-processed ore import taxes. Such requirements may significantly increase the risk profile and operational cost in these locations. The Company and the mining industry are subject to increased nationalization related to mineral resources in certain countries where it operates, which may affect operations, result in tax increases or even expropriation and nationalization.

The Company may have its businesses affected by environmental, health and safety regulations, including regulations relating to climate change.

Almost all the aspects of Company's operations, products, services and projects all over the world are subject to environmental, health and safety regulations, which may expose the Company to increased legal exposure and costs. These regulations require that the Company obtains environmental licenses, permits and authorizations for its operations and conducts environmental impact assessments in order to obtain approval for its projects and the appropriate licenses for deployment. Besides, all significant changes required in existing operations must also undergo the same procedure. Difficulties to obtain operating licenses may cause delays in the deployment of projects or cost increases and, in some cases, force the Company to postpone or even abandon a project. Environmental regulations also impose rules and control standards on activities relating to research, mining, pelletizing, railway and maritime transportation services, ports, decommissioning, refining, distribution and marketing of products. These regulations may give rise to significant costs and liabilities. Besides, community associations and other stakeholders may request an increase in sustainable and socially responsible measures and development,

Table of Contents

which could entail significant cost increases and reduce Company profitability. Litigation relating to these or other matters may adversely affect the Company financial condition or cause harm to its reputation.

Environmental regulations in many of the countries where Vale operates have become stricter in recent years and more regulations or a more aggressive enforcement of regulations already in force are likely to adversely affect the Company by imposing restrictions on its activities and products, by establishing new requirements relating to the emission and the renewal of environmental licenses, increasing costs or forcing the Company to get engaged in area expensive regeneration ventures. For example, changes in the Brazilian legislation to protect underground hollows have forced the Company to conduct large technical studies to participate in complex discussions with competent administration entities, discussions that are still ongoing. Therefore, Vale cannot yet assess the regulatory impact on its operations, though it is possible that in some operations and iron ore mining projects it may be forced to limit mining activities or to take on additional costs to conserve underground hollow or to make up for the impact inflicted on them, the consequences of which may be relevant to output volumes, cost or reserves in the Company's iron ore business.

Concerns over the climate change and efforts to comply with international regulations could lead governments to impose limits on carbon emission, to impose taxes on gas the emission of greenhouse effect gases, and establish commercial emission conditions applicable to Company operations, which could adversely affect its operating costs or its investment requirements. For example, in 2012, the Brazilian government conducted public hearings to present and discuss control plans for carbon emission in mining activities under the terms on the carbon emission law (National Climate Change Policy), and the Australian government introduced a carbon pricing mechanism that came into force in July, 2012 and that requires certain companies, Vale included, to purchase carbon emission permits. Furthermore, the International Maritime Organization is studying mechanisms, such as carbon price, to reduce greenhouse effect gases from international transportation, which may increase the Company's international transportation prices.

Risks relating to the foreign countries in which the Company operates

Economic developments in China may cause a negative impact on the Company's revenue, cash flow and profitability.

China has been the main driver of global demand for minerals and metals in recent years. In 2012, Chinese demand represented 66% of global transoceanic demand for iron ore, 48% of global demand for nickel, and 41% of the global demand for copper. The percentage of the Company's operating revenues attributable to sales to consumers in China was 36.2% in 2012. A contraction in China's economic growth may result in lower demand for Company products, leading to lower revenues, cash flow and profitability. Poor performance of the Chinese real estate sector and higher consumption of carbon steel in China may also cause a negative impact on the Company's results.

Risks relating to Company's ADSs and HDSs (American Depositary Shares and Hong Kong Depositary Shares)

If holders of ADRs or HDSs exchange the ADSs or HDSs, respectively, for underlying shares, they risk losing the ability to remit abroad funds corresponding to the sale in foreign currency.

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The custodian of shares underlying the Company's ADSs and HDSs keeps records with the Central Bank of Brazil, entitling him to remit U.S. Dollars abroad by way of payment of dividends and other distributions relating to the shares underlying ADSs and HDSs or to the disposal of the underlying shares. In the event holders of ADRs or HDRs exchange ADSs or HDSs for underlying shares, they shall be entitled to use the custodian's records of US dollars for only five days from the date of exchange. Upon said term, holders of ADRs or HDRs can no longer hold and remit foreign currency abroad through the sale of underlying shares or distributions regarding such shares, unless they obtain their own registration, pursuant to the terms of Resolution No. 2,689 of the National Monetary Council (CMN), which confers on registered foreign investors the right to buy and sell securities at BMF&BOVESPA. If holders of ADRs or

Table of Contents

HDRs try to obtain a registration, they may incur expenses or suffer delays in the registration process, which may delay the receipt of dividends and other distributions with respect to the underlying shares or capital return in a timely manner.

The Company is unable to assure holders of ADR or HDR that their custodian registration or any registration will not be affected by future legislation modifications or additional restrictions applicable to holders of ADR or HDR, the disposal of underlying shares or the repatriation of resources obtained through disposal will not be taxed in the future.

Holders of ADR and HDR may not be able to exercise their pre-emptive rights relating to shares underlying their ADSs and HDSs.

ADR and HDR may not be able to exercise their preemptive rights or other rights relating to the underlying shares. The ability of HDR and ADR holders to exercise their preemptive rights is not guaranteed, especially if the law applicable in holders' jurisdiction (for example, the Securities Act in the United States or the Companies Ordinance in Hong Kong) demands that a registration declaration be effective or that an exemption from registration be available relating to those rights, as is the case in the United States, or for any document enabling preemptive rights to be registered as a prospectus, as is the case in Hong Kong. The Company is not bound to make a registration statement in the United States, or make any other record with respect to preemptive rights in any other jurisdiction, or to take measures that may be necessary to grant exemptions from available registration and it cannot ensure to holders that it shall make any registration statement or take such measures. The Company is not required to extend the preemptive rights to the holders of HDR through the depositary.

ADR and HDR holders may encounter difficulties to exercise their voting rights.

Holders of ADR or HDR do not have the same rights as shareholders. They only hold contract rights established in their favor under their respective deposit contracts. ADR and HDR holders are not entitled to take part in shareholders meetings and may vote by means of instructions delivered to the depositary. If the Company does not provide the depositary with voting materials in a timely manner, or if the custodian does not provide enough time for holders of ADRs or HDR to submit their voting instructions, HDR and ADR holders shall not be able to exercise their voting rights. With respect to ADSs, if no instruction is received, the depositary may, subject to certain limitations, appoint an attorney designated by the Company.

Legal protections for holders of Company securities differ from one jurisdiction to another and may be inconsistent, unknown or less effective than investors' expectations.

Vale is a global company whose securities are listed on many markets and which investors are located in many different countries. Investors' legal protection systems vary across the world, sometimes in relation to important aspects, and investors must be aware that, as far as the Company's securities are concerned, the protections and remedies available to them may be different from those they are used to in their markets. The company is subject to securities laws applicable in several countries, which provisions and monitoring and enforcement practices are different. The only Corporations Act applicable to the Company is the Brazilian equity companies law, with specific and substantial legal rules and procedures. The Company is also subject to corporate governance standards in various jurisdictions in which its securities are listed, but, as a foreign private issuer, the Company is not obliged to follow many of the corporate governance rules which apply to domestic issuers in the United States with securities listed on the New York Stock Exchange and is not subject to U.S. proxy voting rules. Likewise, the Company has been granted waivers and exemptions regarding certain requirements provided for in the Rules Governing the Listing of Securities on the

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Stock Exchange of Hong Kong Limited (HKEx Listing Rules), in the regulations on Takeovers and Mergers and Share Repurchases and in the Securities and Futures Ordinance of Hong Kong, which are generally applicable to issuers listed in Hong Kong.

Table of Contents

4.2 Comments on expectations for changes in exposure to risk factors

We constantly analyze the risks that the company is exposed to and which may adversely affect our business, financial situation and results of our operations. We permanently monitor changes in the macro-economic and sectorial scenario which might impact our activities, by tracking the main performance indicators. Our policy is one of continuous focus on financial discipline and conservative cash management. At present we do not identify any scenario which would lead to a reduction or increase in the risks mentioned in in item 4.1 of this Reference Form. .

Please find below the measures taken by the Company to mitigate some of the risk factors presented in Item 4.1 of this Reference Form:

The Company may not be able to adjust the volume of production in time or cost effectively in response to changes in demand.

Vale seeks to continually develop technology solutions for excellence in operational performance.

Concessions, authorizations, licenses and permits are subject to expiration, restriction or renewal and to various other risks and uncertainties.

To deal with this challenge, the Company seeks to be a sustainable operator, always trying to be a catalyst for local development. Specifically on the environmental aspects, the Company has actions to improve efficiency in the licensing processes, such as a greater integration between environment and project development teams, the development of a Guide to Best Practices for Environmental Licensing and Environment, the appointment of teams of highly qualified specialists, a greater interaction with environmental agencies and the creation of an Executive Committee to streamline internal decisions.

Company's projects are subject to risks that may result in increased costs or delays that may jeopardize their successful implementation.

As a measure to mitigate projects' risks, Vale invests in training its employees working in the planning and execution of projects, and has taken actions to streamline the environmental licensing that has been the main reason for delays, such as creating a Guide to Best Practices of Environmental Licensing and Environment. Besides, the Company has implemented the dissemination of information and prevention campaigns to improve standards of health and safety of employees.

Operational problems may materially and negatively affect the company's business and financial performance.

Along with the project development process, the Company has adopted an integrated risk assessment, which anticipates potential problems and allows mitigation plans. The methodological rigor promotes a higher accuracy of estimates, transparency and predictability in project

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development, as well as it ensures compliance with environmental regulations and health and safety requirements, and minimizes impacts on communities.

The company's business may be negatively affected if its counterparties fail to meet their obligations.

Vale always seeks high-level partners and keeps a fair and close relationship over time. Additionally, Vale tries to assess the quality of its counterparties' credits to define their exposure based on this evaluation.

Natural disasters can cause serious damages to the company's operations and projects in countries where it operates and/or may have a negative impact on its sales to countries adversely affected by such disasters.

The Company has adopted measures that include business continuity plans that provide immediate responses to protect people, assets and the company's image, alternative solutions to guarantee business continuity and fast recovery for return to normal production flow and monitoring and weather forecast

Table of Contents

systems. Moreover, the geographical diversification of its assets and sales to different countries and regions collaborate to reduce this risk.

The company may not have an adequate insurance coverage for certain business risks.

For cases where there is a limitation on purchased coverage, the Company uses its captive insurers to absorb some of the risks. In addition, it seeks to maintain a long-term relationship with the insurance and reinsurance market, and in all insurance lines, it works with the diversification of counterparties.

It is important to emphasize that the Company only mitigates part of the risks through insurance policies, applying the operational risk management methodology to prioritize the risks and, for the most relevant ones, developing controls and action plans to mitigate the risks.

The company faces an increase in extraction costs as mineral reserves are reduced.

As for the risks listed above, Vale seeks to have an extensive and high quality asset base in the business in which it operates, without relying solely on certain mines, thereby, diversifying risks. The Company invests heavily in mineral exploration since, with more samples, the estimation risk is reduced. It continuously resupplies its reserve base through new projects to avoid depletion of mines. Moreover, it has a presence in several minerals and geographic locations, which also helps to diversify risks.

Labor disputes may disrupt the Company's operations from time to time.

Vale believes that staff is one of its competitive advantages, and seeks to treat all employees in the fairest possible way. Vale promotes a work environment conducive to dialogue, in which all employees are encouraged to share with their colleagues and superiors their concerns of any nature.

The company may face shortages of equipment, services and skilled personnel.

Vale works to increasingly integrate strategic planning, anticipating the demand for equipment and skilled workforce, as well as investing in strategic contracts with suppliers and initiatives to train specialized technicians, engineers and employees engaged in project implementation.

Higher costs of energy or energy shortages may adversely affect the company's business.

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In order to mitigate the risk of power outages and/or costs, the Company has developed its power generation assets based on current and projected energy needs of its mining operations in order to reduce their energy costs and minimize the risk of energy supply problems.

The volatility of the exchange rate of currencies in which the company conducts its operations relative to US dollars could adversely affect its financial condition and operating results.

Vale's cash flow exchange exposure is assessed in conjunction with other market risk exposures - prices of products and supplies and interest rates - and mitigated when deemed necessary to support the growth plan, strategic planning and Vale's business continuity. Various forms of mitigation may be used: financial transactions through the use of derivatives in order to hedge, committed lines of credit guaranteeing liquidity, or any strategic decisions aimed at reducing the risk of cash flow. For more details, see item 5.2 of this Reference Form.

Integration between the Company and acquired companies, that are an important part of the Company's strategies, may be more difficult than anticipated.

In order to mitigate the risk of integration, Vale works with a broad management focus on acquisitions and leverages the previously acquired knowledge.

Table of Contents

The company is involved in several lawsuits that may adversely affect its business, if rulings are not favorable to the Company.

Mitigation measures include the use of defenses presented by Vale based on legal opinions, consolidated legal doctrine, as well as in the predominant case law in the Higher Courts. The internal guidance and consultancy work is based on these same guidelines, sticking to the facts presented.

The Company's governance and compliance processes may not be able to avoid regulatory penalties and damages to its reputation.

Vale has internal controls and mechanisms to detect control failures and obtain information on cases of breach of conduct, especially through the Whistleblower Channel.

Fine iron ore sea transportation rules may affect the Company's operations.

Vale is conducting a research program to further assess the phenomenon of liquefaction and studies to ensure the stability of ships in various situations.

The Company may be negatively affected by changes in government policies, including the application of new taxes or royalties on mining activities.

As safety measures, Vale systematically monitors the changes previously mentioned to react quickly, when applicable participates in discussions with the government through representative bodies of the mining sector and always seeks to operate in the most sustainable possible manner.

Environmental, health and safety regulations, including regulations relating to climate change, may affect the Company's businesses.

Vale operates responsibly in all locations where it is present, respecting the communities and the environment. In order to be globally known as an example of excellence in the management of Health and Safety, Vale has been continually improving its systems.

The adverse economic developments in China may cause a negative impact on the Company's revenue, cash flow and profitability.

The Company mitigates this risk, which is reflected in prices, when deemed necessary to support its growth plan, strategic planning and business continuity.

Table of Contents

4.3 - Publicly known and relevant in-court, administrative or arbitration proceedings

(I) Labor

The tables below present an individual description of labor suits relating to the business of the Company and/or its subsidiaries.

1) Claim no. 01266-2006-012

<p>Jurisdiction Instance Date of filing Parties in the suit Amounts, goods or rights involved Main facts</p>	<p>6th Panel Supreme Labor Court 3rd Instance 11/27/2006 Public Prosecutor for Labor matters (plaintiff) and Vale (defendant) R\$ 689,775.59 thousand The Public Prosecutor for Labor matters of Minas Gerais filed, on 11/27/06, a public civil action seeking to prevent the outsourcing of operation of machines and equipment used for mining, such as wheel loaders, bulldozers and drills, monitoring and reading of instruments in the tailings dams and waste dumps, and preparation and execution of fire-plan (detonation). On 08/20/09, the ruling was issued (partially favorable) ordering Vale to refrain from outsourcing the services mentioned above, performing such activities, therefore, with its own employees. The Court stated that such services were the main activities of the Company and thus could not be outsourced. On 10/15/2009, Vale filed an appeal against this decision. On 02/22/10, the Superior Regional Labor Court rejected Vale's appeal and partially accepted the appeal filed by the public prosecution office, granting the legal protection sought. On 05/18/10, Vale filed another appeal to the Supreme Labor Court, claiming the violation of article 129, III, of the Federal Constitution, article 83 of the Complementary Law No. 75/93, as well as of divergent case law based on the lack of collective interests authorizing the filing of the public civil action by the prosecution office, which results in the lack of competence of such office and on the lack of right to file such a claim because of the absence of one of its requirements, as provided for in article 267, I and VI and article 295, V, of the Code of Civil Procedure. Vale has also claimed the violation of Article 5, items XXII, LIV and LV, of the Federal Constitution and of Article 899 of the Consolidation of Labor Laws, because of the inapplicability of the mortgage ordered by the Regional Labor Court without an enforcement procedure. Finally, Vale claimed the violation of items II and XIII, of Article 5, and sole paragraph of article 170, both of the Federal Constitution, in view of the violation of the right to freely work, provided that the legal requirements are met; besides, activities performed by service providers are specialized and can be legitimately agreed. On 05/21/10, the Supreme Labor Court granted Vale's injunction request to suspend the summary judgment that ordered the detonation to be handled by its own staff. On 07/09/10, Vale's appeal was dismissed on the grounds that the lower court ruling did not violate any federal law or any predominant case law, against which decision Vale filed an interlocutory appeal on 07/19/10, which seeks the assessment of the mentioned above appeal and that is still pending judgment.</p>
<p>Chances of loss Analysis of impact in the case of losing the suit/ Lawsuit's relevance to the Company</p>	<p>Probable In case of maintenance of the unfavorable decision, Vale is obliged, in Minas Gerais, to refrain from outsource services previously mentioned, having to perform such activities through its own employees; and to provide for the termination of contracts of outsourcing which may have as their purpose such services.</p>

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Amount provisioned (if any)

R\$ 190.7 thousand. The provisioned value was changes relative to December 31, 2011 due to a monetary update.

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Table of Contents

Notes	There is only one labor claim (file no. 21022011054), filed at the Labor Court of Congonhas by the employee who is on the list attached to the files of the Public Civil Action at stake who claims to be an employee of Vale (still in the discovery phase).
2) Claim no. 00685-45.2008.5.08.0114	
Court	1st Federal Court of Parauapebas Pará
Instance	1st Instance (settlement during 1st instance)
Date of filing	3/7/2008
Parties in the suit	Public Prosecutor for Labor matters (plaintiff), Vale and the following companies (defendants): Accentum Manutenção e Serviços Ltda., ALTM S.A Tecnologia e Serviços de Manutenção, Atlântica Serviços Gerais Ltda., BMT- Engenharia Ltda., BRITAP - Britagem Azevedo Ltda., Comau do Brasil Industria e Comercio Ltda., Consorcio Canaã, Consorcio Sossego, Consorcio VFC, Construtora Brasil Novo Ltda., Construtora Camilo e Empreendimentos Ltda., Construtora Mineira de Engenharia Ltda., Construtora Norberto Odebrecht S A, Construtora Queiroz Galvão S/A, CRM Construtora Ltda., D Service Ltda., Dan Hebert S/A, Dinex Engenharia Mineral Ltda., E. S. Neres Transportes ME, 20. EME Serviços Gerais Ltda., Engepar Engenharia Ltda., Flapa Mineração e Incorporação Ltda., Geocret Engenharia e Tecnologia Ltda., Gesman Ltda., Integral Construções e Comercio Ltda., Intertek do Brasil Inspeções Ltda., Julio Simões Transportes e Serviços Ltda., Kaserge Serviços Gerais Ltda., Lubrin Lubrificacao Industrial Ltda., Metso Brasil Industria E Comercio Ltda., MIP Engenharia S/A, MSE-Servicos de Operação, Manutenção e Montagem Ltda., Progeo - Engenharia Ltda., Rio Maguari Serviços e Transportes Rodoviario Ltda., Rip Serviços Industriais S/A, Salosergel Vigilância Ltda., Sital - Sociedade Itacolomi de Engenharia Ltda., Sodexo do Brasil Comercial Ltda., T Q M Service Ltda., U & M Mineração e Construção S/A, and Vessoni Transportes Ltda.
Amounts, goods or rights involved	R\$ 108.6 million
Main facts	<p>Vale provides free transportation to employees who live in Parauapebas and in the residential center of Carajás to the mines of Carajás and Sossego. For that reason, the Public Prosecution Office of Pará filed a Public Civil Action against Vale and 42 other service providers, claiming that workplaces are difficult to access and not served by regular public transportation, so Vale and the other companies should be ordered to pay, as overtime, the time spent to go back and forward between Parauapebas and the mines of Carajás and Sossego.</p> <p>On 3/12/10, the first instance decision was published condemning Vale to pay indemnity for damages to the amount of R\$ 100 million and for practicing social dumping (R\$ 200 million). Temporary relief was granted so that Vale could determine, immediately, how many hours travelling each of its employees used, with a penalty of a daily fine of R\$ 100 thousand if not done, as well as refrain contractors from including on their cost worksheet expenses with hours paid travelling and allied costs.</p> <p>As a result of a request for decisions by Odebrecht, (one of the 42 defendants in this lawsuit), in the Request for Corrective Judgment filed by Vale as a response, the Inspector General of the Supreme Labor Tribunal in Brasilia, on 03/19/10 recognized the allegations and reversed the temporary relief order granted by the local judge, so that Vale and the other companies may appeal without having to comply immediately with the sentence passed.</p> <p>VALE, the Public Labor Prosecution Office and Workers Union executed an agreement to settle the claim, which was approved by</p>

Table of Contents

	<p>the Court on 07/20/10. The settlement does not include any of the convictions stated in the Court's decision, namely, the compensation for alleged collective pain and suffering and social dumping. Vale agreed to pay, as working hours, part of the time spent commuting back and forward to work (already implemented). Besides, Vale has already paid the amounts corresponding to the retroactive period defined in the settlement (42 months). In order to fully complying with the settlement, Vale shall engage in two social works: a cultural center and a federal technical school in Parauapebas/PA. The implementation of this part of the settlement is still in progress, and the lawsuit is still active.</p>
<p>Chances of loss</p>	<p>The previous prognosis was of possible loss, considering that the most relevant requests had little chance of being granted by the Court. We reviewed the amounts and we changed the prognosis to probable loss in view of the settlement.</p>
<p>Analysis of impact in the case of losing the suit/ Reasons for importance for the Company</p>	<p>In the event of acceptance of all the claims submitted, Vale would be compelled to pay: (i) <i>in itinere</i> hours for all the employees working at Carajás, Azul and Sossego mines, (ii) <i>in itinere</i> hours retroactively to March 2003 and (iii) group moral damages in an amount of R\$ 100,000,000.00.</p>
<p>Amount provisioned (if any)</p>	<p>The amount originally allocated to the claim was of R\$ 79.5 million. This figure was revised and updated in March 2012 to R\$ 47.6 million, considering the effects of the executed settlement. On December 31, 2012 the provisioned amount was R\$ 50.0 million due to monetary update. As far as the payment of salaries is concerned, Vale has already fulfilled the obligations defined in the settlement approved by the Court with the payment of the retroactive commuting hours. In addition, Vale has been monthly paying its employees the minutes set out in the settlement.</p>

Table of Contents

3) Claim n. 3197.2001.002.17.00-8

Jurisdiction	2nd Labor Court of Vitória - Espírito Santo
Instance	1st Instance
Date of filing	09/19/2001
Parties in the suit	Vale S.A. (defendant) and SINDFER Railroad union of ES and MG (plaintiff)
Amounts, goods or rights involved	Guarantee of the operational activities at the Tubarão Complex.
Main facts	<p>On 09/19/01, the SINDFER union filed a public civil action, whose object was the compliance of areas of the Tubarão Complex with the dictates of NR-10 (safety of premises and services in electricity).</p> <p>After production of expert evidence, Vale was ordered on 03/19/09 to implement in their operational facilities, located in the State of Espírito Santo, all technical measures for the protection of work against risks by electricity provided for in the NR. The judge granted Vale temporary relief, with a period of six months for compliance, ending 11/19/09, with payment of a daily fine of R\$ 100,000.00 for non-compliance.</p> <p>After rounds of negotiation, and several inspections of areas of the Complex, a legal agreement was signed on 12/17/09 between the parties, establishing a timeline for implementation of technical measures, with a deadline of 12/31/11, which was duly approved by the court on 03/11/10, suspending the suit.</p> <p>On 01/24/11, SINDFER took part in a meeting with Vale Representatives where the substitution certificate of the previously filed revitalization schedules was signed accepting the new schedules submitted by the Company where the term for revitalization of the Complex was extended until 03/31/12.</p> <p>In March, the parties agreed to extend the period of adjustment of the Complex to 04/15/2012, and the final inspection was scheduled for 05/07/2012. On 05/07/2012, the parties toured the Complex of Tubarão, and SINDFER acknowledged the fulfillment of the settlement and made a commitment to submit a report. On 06/22/2012 the parties filed a joint petition declaring a settlement had been reached and requesting the lawsuit's dismissal, according to the terms of article no. 269, item III, of the Code of Civil Procedures.</p> <p>On 08/02/2012, the Judge ordered the dismissal of the lawsuit as a result of the settlement. On 08/30/2012 the lawsuit was dismissed.</p>
Chances of loss	N/A claim was archived
Analysis of impact in the case of losing the suit/ Reasons for importance for the Company	Any financial impacts have been removed with the execution of a settlement between the parties in 2009, which was considered complied with by the parties.
Amount provisioned (if any)	No amount has been allocated since the claim does not include any request for Vale to pay any amounts to the Union, employees or third parties. The claim refers to investments in the Company's electrical system, in other words, in its own industrial park. So there is no amount to be allocated in case of loss. Besides, the claim was settled on 8/30/2012.

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4) Claim n. 00329.2006.92020003

Jurisdiction	Labor Court of Maruim - Sergipe
Instance	3rd Instance (Supreme Labor Court)
Date of filing	08/18/2006
Parties in the suit	Vale S.A. (defendant) and Union for workers extracting iron, basic and precious metals-Sindimina (plaintiff)
Amounts, goods or rights	Guarantee of the operational activities at the potassium chlorate mine

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Table of Contents

involved	in Sergipe.
Main facts	Lawsuit brought by SINDIMINA union in the State of Sergipe on 01/23/11, aiming to improve the suitability of the working conditions of employees in the underground potash mine in Sergipe to bring them up to regulatory standard NR 15, especially as regards the temperature of the mine and noise level. On 02/20/06, the ruling was issued determining the adoption of measures, within 30 days, to improve the cooling of the mine, otherwise the activities would be interrupted until the implementation of such measures, and a daily fine of R\$ 100,000 would be applied. A motion for clarification was filed and it was clarified that the 30 day-period should be counted as of the final judgment (res judicata). On 09/25/06, Vale filed an appeal, which was partially granted, on 08/07/07, to exclude the interruption of mine activities and the payment of a daily fine of R\$ 100 thousand from the conviction. On 11/29/07, Vale filed an Appeal before the Supreme Labor Court (TST) to demonstrate compliance with the legal standards applicable to the activity, which was received on 03/04/08. On 12/19/12, the mentioned above appeal was judged unfavorably to Vale. On 02/06/12, a motion for clarification was filed by Vale. On March 2012, the motion was dismissed and the Motion SDI-1 (TST) and the Extraordinary Appeal (STF) were filed and are still pending. Vale has been making efforts to reach a settlement with the union.
Chances of loss	Probable
Analysis of impact in the case of losing the suit/ Reasons for importance for the Company	Any unfavorable decision may risk imposing an obligation to do so, fines and, in the worst case scenario, total or partial closure of the activities of the underground mine for exploitation of Potassium Chlorate/Sergipe, or a monetary penalty for illegal operation. According to the latest RAL (for its acronym in Portuguese for Mining Annual Report), Vale's net income in 2010 resulting from the exploration of the potassium chloride mine exploration was of R\$ 465.9 million, thus, such is the maximum annual impact if the mine is to be closed. The Company is taking precautionary measures to ward off the effects of any unfavorable decision, through improvements in working conditions.
Amount provisioned (if any)	No amount has been allocated since Plaintiff's claim refers to an obligation to do something (that is, to adapt working conditions to the relevant laws and regulations), with no impact on past and current results. It should be noted that, notwithstanding the outcome of the claim, Vale is already making improvements in the mine conditions. Moreover, the decision provides for the payment of a daily fine if the company continues to develop the mine activities without taking into account the obligation to adapt working conditions to the relevant laws and regulations as provided for in the court ruling. Therefore, the Company will only be subject to a fine (i) when the decision becomes final (res judicata) and (ii) if an expert evidence demonstrates that the measures adopted by the company were not sufficient to adjust the working environment to the court ruling.

(II) Taxes

The tables below present a description of individual tax cases considered relevant to the business of the company and/or its subsidiaries.

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With regard to the processes listed below which challenge the taxation of profits from its affiliates abroad, it is important to notice that tax authorities may issue new tax assessments to ensure the right to collect amounts relative to 2009 and thereafter. Additionally, Vale may be compelled to provide guarantees of the amounts involved to be able to discuss the payment of

Table of Contents

taxes in Court. However, since the decision issued was favorable to Vale, in May 2012, attributing suspensive effects to the extraordinary appeal and, consequently dismissing the applicability of amounts being questioned, there is no need to post any bond while such favorable decision is still in force and any new assessment notices shall be issued but no payment shall be required.

Due to taxation exposures involving some companies from the Vale Group, the Company had provisions totaling R\$ 2,039 million, from which (i) R\$ 539 million were linked to subsidiary companies abroad, (ii) R\$ 287 million were relative to Brazilian subsidiaries, (iii) R\$ 1,060 million were relative to provisions related to CFEM proceedings (described in item 4.6 (ii) of this Reference Form), and (iv) R\$ 153 million relative to the Company's other tax proceedings.

1) Writ of Mandamus 2003.51.01.002937-0

Jurisdiction	Superior Court of Justice and the Federal Supreme Court
Instance	3rd instance
Date of Filing	02/03/2003
Parties in the suit	Vale (Plaintiff) and Federal Tax Authority (Defendant)
Amounts, goods or rights involved	Not applicable
Main facts	In February 2003, Vale filed a Writ of Mandamus to ensure the right not to be subject to income tax and social contribution as far the profits of its subsidiaries and affiliates abroad were concerned, according to the sole paragraph of article 74 of the Provisional Executive Order 2.158-34/2001, and later amendments.

Arguments of the Company:(i) section 74 of the Provisional Measure overlooks the treaties against double taxation signed by Brazil; (ii) the National Tax Code forbids the aforementioned taxation as set forth by the Provisional Measure; (iii) even if section 74 of the Provisional Measure were valid, exchange variation should be excluded from the assessment of due taxes; and (iv) the rule IN 213/2002 is illegal and (v) violation of the principle of prior taxation, in the event of taxation prior to December 2001.

In February 2003, an injunction request was granted to suspend the collection of the tax credit resulting from the challenged legislation, so that the rules of Law No. 9.532/97 would continue to apply

However, in August 2005, a ruling was issued denying the request made in the writ of mandamus as the Court did not accept Vale's arguments

After the dismissal of the motion for clarification filed by Vale, the company filed an appeal which was received on September 29, 2005 and the collection of the tax credit was suspended.

On March 29, 2011, the 3rd Specialized Panel of the Federal Regional Court of the 2nd Region (TRF 2nd Region) dismissed the appeal, rejecting the arguments of Vale

After reviewing the ruling, published on May 30, 2011, Vale has changed the prognosis from remote to possible, as reflected in its financial statements for June 30, 2011, filed on July 28, 2011. On June 3, 2011, a motion for

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clarification was filed, pointing out omissions regarding Vale's arguments on the exchange rate variation and on the unconstitutionality of the sole paragraph of article 74 of Provisional Executive Order, in addition to a contradiction relative to the application of treaties to avoid double taxation. The contradiction claimed by Vale is based on the fact that such challenged decision states, at the same time, that Article 7 of the treaties against double taxation prohibits Brazil from taxing profits of affiliates and subsidiaries abroad, that treaties prevail against internal laws and that, however, such provision does not prevent the application of article 74 of the Provisional Executive Order 2158-35/01.

On November 28, 2011, the ruling which judged the motion partially in favor of Vale was published and the exchange rate variation on the amount of foreign investment was excluded, but the other requests were rejected and the suspension of the tax credit collection was cancelled.

On December 13, 2011, Vale filed a Special Appeal at the Superior

Table of Contents

Court of Justice (STJ) and an Extraordinary Appeal at the Supreme Court of Justice (STF).

The Special and Extraordinary Appeals are admitted on May 7, 2012, the same day that Vale filed for a Preliminary Order before the Federal Supreme Court requesting attribution of suspensive effects to the Extraordinary Appeal aiming to suspend the application of amounts related to IRPJ and CSLL being discussed. This request was granted preliminarily on May 9, 2012 and confirmed by the STF plenary on April 10, 2013, reason why collections related to profits of affiliates abroad are suspended.

Chances of loss

Possible

Analysis of impact in the case of losing the suit/ Reasons for importance for the Company

In the event of a final unfavorable decision, regarding all arguments raised by the Company, the Brazilian Tax Authority may collect income taxes and social contributions on profits of subsidiaries and/or affiliates abroad, taking into account the principle of the due process of law in the specific administrative and in-court collection procedures.

Amount provisioned (if any)
Notes

Not applicable

The judgment of the unconstitutionality claim (ADI, for its acronym in Portuguese) filed by the Confederação Nacional da Indústria (CNI) challenging the constitutionality of Article 74 of Provisional Executive Order was resumed on April 3, 2013. On April 10, 2013 the decision of said ADI was rendered, determining that article 74 is not applicable to associate companies located in countries without favoring taxation (non tax havens), but applicable to associate companies located in countries with favoring taxation (tax havens). There was also a decision on the non-retroactive nature of the sole paragraph of article 74 in the MP. On the same date the Extraordinary Appeals of *Cooperativa Agropecuária Mourãoense* COAMO and Embraco were judged. Vale's Preliminary Order was confirmed unanimously, as described in item 1.4. The result of these judgments will have an impact on outcome of Vale's final discussion.

1.2) Injunction Request no. 2011.02.01.017919-1 related to the Writ of Mandamus 2003.51.01.002937-0

Court
Instance
Date of filing
Parties to the claim
Values, assets or rights involved
Main factors

Federal Regional Court of the 2nd Region
2nd Instance
12/26/2011
Vale (plaintiff) and Federal Government (defendant)
Not applicable

On December 26, 2011, an injunction was filed by Vale to suspend, until the judgment of the Special and Extraordinary Appeals filed by the Company in the Writ of Mandamus (item 1), the collection of amounts regarding income taxes and social contributions being discussed. The injunction request was denied and Vale filed an interlocutory appeal, which was dismissed during a trial held on February 16, 2012. The lawsuit was dismissed on June 27, 2012 after the above-mentioned unfavorable final decision was rendered. Considering the final archival of the process, this item will be removed from future Company reports.

Probability of loss
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company
Allocated amount (if any)

Lost.
Not applicable. Considering the granting of the injunction related to item 1.4, this discussion is prejudiced as the object no longer applies.

None

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Table of Contents

1.3) Injunction Request no. 18.919 related to the Writ of Mandamus 2003.51.01.002937-0

Court	Superior Court of Justice
Instance	3rd Instance
Date of filing	02/01/2012
Parties to the claim	Vale (plaintiff) and Federal Government (defendant)
Values, assets or rights involved	Not applicable
Main factors	<p>On February 1, 2012, an injunction was filed by Vale to suspend, until the judgment of the special appeal filed in the writ of mandamus (item 1), the collection of amounts regarding income taxes and social contributions being discussed. On February 3, 2012, the injunction request was denied. Vale filed an appeal and February 16, 2012, the Minister Rapporteur caused the decision to be ineffective upon recognizing his impartiality for personal reasons. The case was submitted to the Minister Teori Albino Zavascki and on March 14, 2012, the injunction request was granted suspending applicability of amounts being discussed.</p> <p>On March 28, 2012, the National Tax Authority filed an interlocutory appeal, for purposes of reverting the preliminary order favorable to Vale on May 3, 2012, , by majority vote, thus rejecting the previously rendered monocratic decision. On June 19, 2012, Vale filed a Motion for Clarification against this decision, which was unanimously denied on February 19, 2013. The process was archived on April 9, 2013, when the unfavorable decision turned into res judicata. Considering the final argument, this item will removed from future Company forms.</p>
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	<p>In the event of any unfavorable outcome, tax credits will not be enforceable immediately as their effectiveness is subject to the final decision to the Injunction filed before the Federal Supreme Court object of item 1.4 below, which decision currently in effect suspends the applicability of amounts for IRPJ and CSLL being discussed.</p>
Allocated amount (if any)	None

1.4) Development of Writ of Mandamus 2003.51.01.002937-0: Injunction no. 3.141

Court	Federal Supreme Court
Instance	3rd Instance
Date of filing	05/07/2012
Parties to the claim	Vale (plaintiff) and Federal Government (defendant)
Values, assets or rights involved	Not applicable
Main factors	<p>On May 7, 2012, Vale filed for an Injunction to attribute suspensive effects to the Extraordinary Appeal filed in the Writ of Mandamus (item 1) determining suspension of the applicability of amounts for IRPJ and CSLL being discussed.</p> <p>On May 9, 2012, Justice Marco Aurélio Mello , from the Federal Supreme Court granted the injunction attributing the suspensive effect to the Extraordinary Appeal, thus suspending the applicability of amounts under discussion.</p> <p>The decision to grant the provisional remedy is subject to approval by the Court s other Justices. On May 25, 2012, the Union filed an appeal. On May 28, 2012, the Union filed an Interlocutory Appeal that was then granted. On June 8, 2012, Vale filed Objection to the Appeal filed by the Treasury. On April 10, 2013, there was a decision rejecting, unanimously,</p>

the Appeal and maintaining the injunction favorable to Vale. This decision is yet to be published.

Table of Contents

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, there is a chance to require guarantee for amounts under discussion.
Allocated amount (if any)	None

2) Tax Assessment Notice no. 18471.001243/2007-69

Court Instance	Tax Appeals Administrative Council 2nd administrative instance
Date of filing	12/10/2007
Parties to the claim	Federal Tax Authority (plaintiff) and Vale (defendant)
Values, assets or rights involved	R\$ 460 million, plus penalties and interests amounting to R\$ 1,003 million (December 2012)
Main factors	On November 12, 2007, Vale was made aware of the Tax Assessment Notice which object is the collection of supposed income tax and social contribution debts levied on the accounting gain regarding the ownership equity of foreign subsidiaries in the 1996 to 2002 base years.

On December 10, 2007, Vale filed an Impugnation, arguing that such requirements were not valid and that no penalty could be applied because the injunction issued in favor of Vale in the writ of mandamus no. 2003.51.01.002937-0 was still in force (item 1). The Internal Revenue Trial Service (DRJ, for its acronym in Portuguese) judged the impugnation partially against the company.

On August 18, 2008, a Voluntary Appeal was filed by Vale. The Federal Tax Authority also filed an Appeal regarding the partial reduction of the social contribution collection.

At the judgment of these appeals, held on May 19, 2010, some of Vale's arguments were not assessed by CARF, as it was deemed that they should be assessed by a Judge. Additionally, the preliminary argument regarding the running of the statute of limitations as far the collections referring to years 1996 and 1997 presented by Vale were concerned was rejected, the application of a fine against Vale was canceled, and the Appeal from the National Tax Authority was dismissed.

On September 26, 2011, Vale filed a Motion for Clarification stating the existence of omissions in the second instance administrative decision. Such motion is still pending judgment.

On March 10, 2011, a Special Appeal was presented by the National Tax Authority against the cancelling of the penalty. Later on, Vale submitted its counterarguments together with a Special Appeal regarding the decision that rejected its preliminary argument on the running of the statute of limitation.

On January 24, 2012, the Special Major Taxpayer Office (DEMAC, for its acronym in Portuguese), ex officio, interpreting the decision of the Federal Regional Court of the 2nd Region in the writ of mandamus no. 2003.51.01.002937-0 in the sense that there is an overlapping between the discussions in this administrative proceeding and in that writ of mandamus, rejected all administrative appeals and ordered the immediate collection of part

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of the credits that are currently object of Tax Assessment no. 0015197-06.2012.4.02.5101 (item 2.2). Therefore, said appeals have not even reached the special instance level.

Vale filed a Writ of Mandamus to reverse the order of DEMAC and ensure the regular development of the administrative process, as well as to request reconsideration at the administrative level.

On September 20, 2012, Vale received a notice from the Brazilian IRS acknowledging that the dismissal of amounts relative to changes in

Table of Contents

currency exchange, that amounted to R\$ 1.6 billion. This dismissal resulted from a partially favorable decision made on the Motions for Clarification filed by the Company in the Writ of Mandamus no. 2003.51.01.002937-0 (item 1 above).

Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, the taxes on the accounting gain regarding the ownership equity of foreign subsidiaries discussed under this tax assessment notice may be levied. Any financial impact, however, shall only occur in case of a final unfavorable decision in the in-court collection claim.
Allocated amount (if any)	None

2.1) Writ of mandamus. 0001899-44.2012.4.02.5101 related to the Tax Assessment Notice no. 18471.001243/2007-69

Court	28th Federal Court of Rio de Janeiro
Instance	1st Instance
Date of filing	02/06/2012
Parties to the claim	Vale (plaintiff) and DEMAC (defendant)
Values, assets or rights involved	Not applicable
Main factors	On February 6, 2012, Vale filed a Writ of Mandamus to suspend the order of DEMAC and ensure the regular development of the administrative proceeding no. 18471.001243/2007-69. The injunction request was denied, reason why Vale filed a request for reconsideration, which was denied, and a Request for Amendment of Judgment, which is pending judgment. Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1.4), with consequent suspension of applicability of amounts related to IRPJ and CSLL <i>being discussed</i> . On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court, granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	Not applicable
Allocated amount (if any)	None

2.2) Tax Collection no. 0015197-06.2012.4.02.5101 regarding the Tax Assessment Notice no. 18471.001243/2007-69

Court	5th Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	03/13/2012

Table of Contents

Parties to the claim	Federal Taxpayer Authority (plaintiff) and Vale (defendant)
Values, assets or rights involved	R\$ 1,757 million in December 2012 (value already included in the amount of the main administrative process described in item 2 above, added with legal fees)
Main factors	<p>On March 12, 2012, the Federal Tax Authority filed a claim to collect income taxes and social contributions presumably due, in view of the order from DEMAC mentioned in item 2 above. On April 25, 2012, the Federal Tax Authority filed a petition requesting seizure of dividends to be distributed by Vale on April 30, 2012.</p> <p>On April 26, 2012, Vale filed a petition challenging the request from the Federal Tax Authority and offering, alternatively, a bank guarantee to secure the debt. On the same day, the court accepted the offering of the guarantee, presented by Vale on April 27, 2012.</p> <p>On May 8, 2012, the Federal Tax Authority presented a request to block monies through the BACENJUD system that, upon objection by Vale, was rejected due to the result of the injunction object of item 1.4. Vale requested dismissal of the bail previously offered as guarantee of execution, granted by the Court. Faced with such decision, on May 14, 2012, Vale paid the bail. Due to the aforementioned injunction granted in the provisional remedy cited in item 1.4, the lawsuit has been stayed.</p>
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome related to the Injunction object of item 1.4, Vale may have to present a new guarantee to suspend the applicability of the amounts in question.
Allocated amount (if any)	None

3) Notice of Infraction nº 18471.000141/2008-15

Jurisdiction	Administrative Council of Fiscal Resources
Instance	2nd administrative instance
Date of filing	03/28/2008
Parties in the suit	Federal Revenue Secretariat (plaintiff) and Vale (defendant)
Amounts, goods or rights involved	R\$ 4,076 million, plus penalties and interests amounting to R\$ 7,274 million (December 2012)
Main facts	<p>On February 29, 2008, Vale became aware of the tax assessment notice which object is the collection of supposed income tax and social contribution debts levied on the accounting gain regarding the ownership equity of foreign subsidiaries in the 2003 to 2006 base years.</p> <p>On March 28, 2008, Vale filed an impugnation, arguing that such requirements were not valid and that no penalty could be applied because the injunction issued in favor of Vale in the writ of mandamus no. 2003.51.01.002937-0 was still in force (item 1). The Internal Revenue Trial Service (DRJ, for its acronym in Portuguese) judged the impugnation against the company.</p> <p>On August 18, 2008, Vale filed a voluntary appeal, reinforcing the arguments included in its impugnation.</p> <p>At the trial, in May 19, 2010, the Tax Appeals Administrative Council (CARF, for its acronym in Portuguese) annulled the first instance decision so that a new administrative decision be given, assessing the applicability of the International Convention to which Brazil is a signatory and which purpose is to avoid double taxation between countries, since this argument was not assessed by DRJ.</p>

In light of this decision, in September 26, 2011, a motion for clarification was filed by the Federal Tax Authority. At the trial on October 3, 2011, CARF partially accepted the motion for clarification only to clarify the omission as to the declaration of nullity of the first instance decision and to ratify the judgment previously delivered.

Table of Contents

On December 6, 2011, the Federal Tax Authority filed a petition alleging that, in view of a supposed acknowledgment that two claims, one at the administrative level and another in Court, were active at the same time, which took place during the judgment of the motion to clarify filed in the writ of mandamus no 2003.51.01.002937-0 (item 1), the decision which annulled the first instance decision would be null and, therefore, the process should be directed to the collection sector of the Federal Tax Authority.

On December 22, 2011, Vale filed a petition alleging that there was no recognition of claim concurrency.

Nonetheless, on January 18, 2012, the President of the 2nd Chamber of CARF issued a monocratic decision, taking for granted the arguments of the Federal Tax Authority to cancel the judgment which annulled the first instance decision.

On January 25, 2012, Vale filed a writ of mandamus (item 1.3) alleging the illegality of the above mentioned monocratic decision, and an injunction order was issued to suspend the effects of such decision and determine the regular processing of the administrative claim. In addition, Vale filed an administrative appeal. The Federal Tax Authority filed a claim to suspend the injunction order No. 0009426-51.2012.4.01.0000 and on March 13, 2012, a decision was published suspending the effectiveness of the injunction obtained by the Company. Vale filed an interlocutory appeal in order to reverse such decision, which was denied.

On May 8, 2012, although the decision granting the injunction related to item 1.3 and, thus, has yet to be published and despite of the effective suspensive effect of the preliminary order granted by the STJ, the Federal Tax Authority distributed the Tax Assessment to collect amounts under discussion (item 3.2). Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being questioned. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.

Chances of loss

Analysis of impact in the case of losing the suit/ Reasons for importance for the Company
Amount provisioned (if any)

Possible

In the event of a final unfavorable decision, the taxes on the accounting gain regarding the ownership equity of foreign subsidiaries discussed under this tax assessment notice may be levied. Any financial impact, however, shall only occur in case of a final unfavorable decision in the in-court collection claim.

None

3.1) Writ of mandamus. 0004826-69.2012.4.01.3400 related to the Tax Assessment Notice no. 18471.000141/2008-15

Court	14th Federal Court of the Federal District
Instance	1st Instance
Date of filing	01/25/2012
Parties to the claim	Vale (plaintiff) and President of the 2nd Chamber of the Tax Appeals Administrative Council (defendant)
Values, assets or rights involved	Not applicable
Main factors	On January 25, 2012, Vale filed a writ of mandamus, and on 01/27/12, an injunction order was issued to suspend the effects of

Table of Contents

the administrative monocratic decision mentioned above and to determine the regular processing of administrative claims no. 18471.000141/2008-15 and 12897.00868/2009-98. The Federal Tax Authority filed a claim to suspend the injunction request no. 0009426-51.2012.4.01.0000 and, on March 12, 2012, a decision was issued suspending the validity of the injunction obtained by the Company. Vale filed an interlocutory appeal in order to reverse the decision, which was denied. Judgment on the lawsuit's merit is still pending.

Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being questioned. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	Not applicable
Allocated amount (if any)	None

3.2) Development of Notice of Infraction no. 18471.000141/2008-15: Tax Assessment Notice no. 0023959-11.2012.4.02.5101

Court	7th Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	3/13/2012
Parties to the claim	Federal Tax Authority (Plaintiff) and Vale (Defendant)
Values, assets or rights involved	R\$ 13,620 in December 2012 (2012 (amount included in the main administrative procedure described in item 3 above))
Main factors	On May 8, 2012, although the decision granting the injunction related to item 1.3 has yet to be published and despite of the effective suspensive effect of the preliminary order granted by the STJ, the Federal Tax Authority filed a tax assessment notice to collect the amounts of IRPJ and CSLL supposedly due, considering the administrative decision mentioned in item 3 above.

Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL *being questioned*. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For that reason, the applicability of such amounts is suspended. Based on the injunction dated May 9, 2012, on May 11, 2012, Vale filed a petition informing the injunction and, on the same date, a decision was pronounced suspending the Execution.

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome related to the Injunction object of item 1.4, Vale may have to present a new guarantee to suspend the applicability of the tax credits in question.
Allocated amount (if any)	None

Table of Contents

4) Notice of Infraction n° 12897.000868/2009-98

Court	Administrative Tax Revenue Council
Instance	2nd administrative instance
Date of filing	01/11/2010
Parties in the suit	Federal Revenue Secretariat (plaintiff) and Vale (defendant)
Amounts, goods or rights involved	R\$ 5,742 million, plus penalties and interest amounting to R\$ 8,272 million (December 2011)
Main facts	<p>On December 14, 2009, Vale became aware of the tax assessment notice which object is the collection of supposed income tax and social contribution debts levied on the accounting gain regarding the ownership equity of foreign subsidiaries in the 2007 base year.</p> <p>On January 11, 2010, Vale filed an impugnation, arguing that such requirements were not valid and that no penalty could be applied because the injunction issued in favor of Vale in the writ of mandamus no. 2003.51.01.002937-0 was still in force (item 1). The Internal Revenue Trial Service (DRJ, for its acronym in Portuguese) judged the impugnation against the company.</p> <p>On July 8, 2010, Vale filed a voluntary appeal, reinforcing the arguments included in its impugnation.</p> <p>On November 23, 2011, CARF decided to send the files back to the first instance so that a new decision would be issued to supplement the previous one, and that the applicability of the Convention to avoid double taxation could be assessed.</p> <p>On December 6, 2011, the Federal Tax Authority filed a petition in this administrative proceeding alleging breach of a court decision in view of a supposed recognition of claim concomitance in the injunction described in item 1 above, and requiring the claim to be directed to the Tax Authority collection sector.</p> <p>On December 22, 2011, Vale filed a petition alleging that there was no recognition of claim concurrency. The President of the 2nd Chamber of CARF issued a monocratic decision, taking for granted the arguments of the Federal Tax Authority so as to cancel the judgment that annulled the decision on the Voluntary Appeal which ordered the files to be sent to the first instance.</p> <p>On January 25, 2012, Vale filed a writ of mandamus (described in item 3.1) alleging the illegality of the monocratic decision, and an injunction order was issued to suspend the effects of such decision and determine the regular processing of the administrative claims. In addition, Vale filed an administrative appeal.</p> <p>The Federal Tax Authority filed a claim to suspend the injunction order No. 0009426-51.2012.4.01.0000 and on March 13, 2012, a decision was published suspending the effectiveness of the injunction obtained by the Company. Vale filed an interlocutory appeal in order to reverse the decision, which was denied.</p> <p>On May 8, 2012, although the decision granting the injunction related to item 1.3 has yet to be published and despite of the effective suspensive effect of the preliminary order granted by the STJ, the Federal Tax Authority distributed the Tax Assessment to collect amounts under discussion (item 4.4)</p>

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Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurelio Mello, of the Federal Supreme Court, granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.

Possible

In the event of a final unfavorable decision, the taxes on the

Chances of loss

Analysis of impact in the case

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Court	11th Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	07/08/2011
Parties to the claim	Federal Taxpayer Authority (plaintiff) and Vale (defendant)
Values, assets or rights	R\$ 32,258,589.89 in December 2012 (value already included in the

Table of Contents

involved	amount of the main administrative process described in item 4 above, added with legal fees)
Main factors	<p>On July 8, 2011, the Federal Tax Authority filed a claim to collect income taxes and social contributions presumably due, in view of the collection letter mentioned in item 4.1.</p> <p>On August 29, 2011, Vale submitted a guarantee regarding the tax collection, which was subsequently and expressly approved by the Federal Tax Authority.</p> <p>On September 28, 2011, Vale filed a motion to stay the collection, under No. 2011.51.01.509917-5, requiring the suspension of the collection until the final judgment of the main writ of mandamus filed in 2003 and the cancellation of the Company's Debt Certificate due to a material error, in view of an inconsistency of the amounts indicated therein.</p> <p>On September 13, 2012, the Federal Tax Authority presented its response to the Motion for Injunction. Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.</p>
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, the guarantee of this execution may be enforced.
Allocated amount (if any)	None

4.3) Motion to Stay Collection no. 2011.51.01.509917-5 regarding the Tax Assessment Notice no. 12897.000868/2009-98 dated 01/11/10

Court	11th Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	09/28/2011
Parties to the claim	Federal Tax Authority (Defendant) and Vale (Plaintiff)
Values, assets or rights involved	Value already mentioned in item 4.2 above.
Main factors	<p>On September 28, 2011, Vale filed a motion to stay the collection, requiring the suspension of the collection until the final judgment of the main writ of mandamus (item 1) filed in 2003 and the cancellation of the Company's Debt Certificate due to a material error, in view of an inconsistency of the amounts indicated therein. On September 13, 2012, the Federal Tax Authority filed objection to the Motion for Collection. Conclusion is pending on the delivery of the court records.</p> <p>Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL <i>being discussed</i>. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.</p>
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, the guarantee may be enforced.

Table of Contents

Allocated amount (if any) None

4.4) Development of the Notice of Infraction no. 12897.000868/2009-98: Tax Assessment 0023958-26.2012.4.02.5101

Court	7th Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	05/8/2012
Parties to the claim	Federal Tax Authority (Plaintiff) and Vale (Defendant)
Values, assets or rights involved	R\$16,817 million in December 2012 (amount included in the main administrative procedure described in item 4 above, added with legal fees)
Main factors	On May 8, 2012, although the decision granting the injunction related to item 1.3 has yet to be published and despite of the effective suspensive effect of the preliminary order granted by the STJ, the Federal Tax Authority filed a tax assessment notice to collect the amounts of IRPJ and CSLL supposedly due, considering the administrative decision mentioned in item 4 above. Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For that reason, applicability of such amounts is suspended. As a result of the injunction dated May 9, 2012, on May 11, /2012, a decision was rendered ordering the stay of the lawsuit.
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome related to the Injunction object of item 1.4, Vale may have to present a guarantee to suspend the applicability of such amounts.
Allocated amount (if any)	None

5) Notice of Infraction no. 12897.000023/2010-36

Jurisdiction	Administrative Tax Revenue Council
Instance	2nd administrative instance
Date of filing	02/12/2010
Parties in the suit	Federal Revenue Secretariat (plaintiff) and Vale (defendant)
Amounts, goods or rights involved	R\$ 1,604 million, plus penalties and interests amounting to R\$ 2,109 million (December 2012)
Main facts	On January 18, 2010, Vale became aware of the tax assessment notice which purpose is the collection of alleged income tax and social contribution debts levied on the accounting gain regarding the ownership equity of foreign subsidiaries during the 2008 base year. On February 2, 2010, Vale filed an impugnation, arguing that such requirements were not valid and that no penalty could be applied because the injunction issued in favor of Vale in the writ of mandamus no. 2003.51.01.002937-0 was still in force (item 1). The Internal Revenue Trial Service (DRJ, for its acronym in Portuguese) judged the impugnation against the company. On July 8, 2010, Vale filed a Voluntary Appeal against the decision which dismissed such impugnation, reinforcing the previously submitted arguments. Such appeal is still pending judgment.

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Table of Contents

On December 6, 2011, the Federal Tax Authority filed a petition in this administrative proceeding alleging breach of a court decision in view of a supposed acknowledgment of claim concomitance by the Judiciary and requiring the claim to be directed to the Tax Authority collection sector.

On January 17, 2012, Vale filed a petition alleging that there was no recognition of claim concurrency by the Judiciary. The President of the 3rd Chamber of CARF issued an order determining that the claim be directed to the Federal Tax Authority Office of origin. On 03/16/12, Vale received a letter requiring the payments of the amounts *sub judice*.

On May 8, 2012, although the decision granting the injunction related to item 1.3 has yet to be published and despite of the effective suspensive effect of the preliminary order granted by the STJ, the Federal Tax Authority distributed the Tax Assessment to collect amounts under discussion (item 5.6)

Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.

Chances of loss

Analysis of impact in the case of losing the suit/ Reasons for importance for the Company
Amount provisioned (if any)

Possible

In the event of a final unfavorable decision, the taxes on the accounting gain regarding the ownership equity of foreign subsidiaries discussed under this tax assessment notice may be levied. Any financial impact, however, shall only occur in case of a final unfavorable decision in the in-court collection claim.

None

5.1) Writ of mandamus 2010.51.01.017597-3 related to the Tax Assessment Notice no. 12897.000023/2010-36, dated 02/12/10:

Court	Federal Regional Court of the 2nd Region
Instance	2nd Instance
Date of filing	09/28/2010
Parties to the claim	Vale (Plaintiff) and Federal Tax Authority (Defendant)
Values, assets or rights involved	Amount already included in the value of the main administrative process (item 5 above, and legal fees).
Main factors	On August 19, 2010, Vale received a letter requesting the payment of income taxes and social contributions which, according to the Federal Tax Authority, would not be the object of the Voluntary Appeal previously filed by the Company in the administrative procedure.

On August 23, 2010, Vale filed a petition requesting the cancellation of the collection on the grounds that the claimed values were covered by the Voluntary Appeal previously filed by the Company.

Given the acceptance of the arguments submitted by Vale, in the sense that there would be calculation errors, the Federal Tax Authority reduced the amount charged and issued a new collection letter, which was received by Vale on September 6, 2010.

Due to the partial maintenance of the collection, on September 28, 2010, Vale filed a writ of mandamus on the grounds that such amounts would still be under discussion at the administrative level. The injunction request was granted to suspend the collection of debts required by the Federal Tax Authority.

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In view of this decision, the Federal Tax Authority filed an interlocutory appeal in order to reverse the decision regarding the suspension of the collection, which was denied.

Table of Contents

However, on December 16, 2011, an unfavorable judgment was rendered, as the Court deemed that such values would not be the object of the voluntary appeal previously filed by the Company.

In view thereof, on January 9, 2012, Vale filed an appeal, requiring the reversion of the decision. That appeal is pending judgment by the Federal Regional Court of the 2nd Region.

On January 26, 2012, two tax collection claims were filed to recover the income tax and social contribution amounts under discussion. Vale had to post a bond to secure the alleged debts and the motions to stay such collection claims (items 5.2 to 5.5 below).

Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended.

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	Not applicable
Allocated amount (if any)	None

5.2) Tax Collection no. 0011487-75.2012.4.02.5101 regarding the Tax Assessment Notice no. 12897.000023/2010-36 dated 02/12/10

Court	1st Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	01/26/2012
Parties to the claim	Federal Taxpayer Authority (plaintiff) and Vale (defendant)
Values, assets or rights involved	R\$ 20,587,405.60 in December 2012 (value already included in the amount of the main administrative process described in item 5 above, added with legal fees)
Main factors	On January 26, 2012, the Federal Tax Authority filed a claim to collect income taxes and social contributions presumably due, in view of the collection letter mentioned in item 5.1.

On February 2, 2012, Vale posted a bond to secure the tax collection claim and on 02/6/12, the Court accepted such bond.

Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended, and on May 7, 2013, an order was published determining dismissal of the Collateral Letter by Vale.

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, the guarantee of this execution may be enforced.
Allocated amount (if any)	None

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Table of Contents

5.3) Motion to Stay Collection no. 0013552-43.2012.4.02.5101 regarding the Tax Assessment Notice no. 12897.000023/2010-36 dated 02/12/10

Court	1st Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	03/08/2012
Parties to the claim	Federal Tax Authority (Defendant) and Vale (Plaintiff)
Values, assets or rights involved	Value already mentioned in item 5.2 above.
Main factors	On March 8, 2012, Vale filed a motion to stay the collection claim. We are waiting for the Federal Tax Authority's objection to Vale's motion. Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended. On May 7, 2013, there was a decision ending the action with no merit resolution, considering suspension of enforcement due to decisions issued in the Preliminary Measures issued by the STJ (1.3) and STF (1.4).
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, the guarantee of this execution may be enforced.
Allocated amount (if any)	None

5.4) Tax Collection no. 0011476-46.2012.4.02.5101 regarding the Tax Assessment Notice no. 12897.000023/2010-36 dated 02/12/10

Court	4th Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	01/26/2012
Parties to the claim	Federal Taxpayer Authority (plaintiff) and Vale (defendant)
Values, assets or rights involved	R\$ 57,380,983.21 in December 2012 (value already included in the amount of the main administrative process described in item 5 above, added with legal fees)
Main factors	On January 26, 2012, the Federal Tax Authority filed a claim to collect income tax presumably due, in view of the collection letter mentioned in item 5.1. On February 2, 2012, Vale posted a bond to secure the entire debt. On May 8, 2012, although the decision granting the injunction related to item 1.3 has yet to be published and despite of the effective suspensive effect of the preliminary order granted by the STJ, the Federal Tax Authority requested the seizure of R\$ 55,654,046.21 through the BACENJUD system filed a petition requesting to block monies to guarantee the execution through the Bacenjud system, granted by the Court. Vale filed a request for amendment of judgment against this decision. Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court

granted the injunction, confirmed by unanimity of votes on April 10, 2013.
As a result of the

Table of Contents

injunction dated May 9, 2012, on 05/14/12, a court order suspended the lawsuit.

Vale requested the release of the values under discussion, as authorized by the Court and, since it was denied, it filed an interlocutory appeal. On June 8, 2012, a court order was issued upholding the decision. Considering the decision favorable to Vale was maintained by the STF, mentioned in item 1.4, on May 15, 2013, the Collateral Letter previously granted was retrieved.

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, the deposit that guarantees this execution may be converted into revenue to the Union.
Allocated amount (if any)	None

5.5) Motion to Stay Collection no. 0013553-28.2012.4.02.5101 regarding the Tax Assessment Notice no. 12897.000023/2010-36 dated 02/12/10

Court	1st Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	03/08/2012
Parties to the claim	Federal Tax Authority (Defendant) and Vale (Plaintiff)
Values, assets or rights involved	Value already mentioned in item 5.4 above.
Main factors	On March 8, 2012, Vale filed a motion to stay the collection claim. Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed, and on May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013. For this reason, the applicability of such amounts is suspended. As a result of the injunction dated 5May 9, 2012, on May 10, 2012 a decision suspended the suit.
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of any unfavorable outcome, the deposit that guarantees this execution may be converted into revenue to the Union.
Allocated amount (if any)	None

5.6) Development of Notice of Infraction no. 12897.000023/2010-36: Tax Assessment Notice no. 0023974-77.2012.4.02.5101

Court	1st Tax Collection Court of Rio de Janeiro
Instance	1st federal instance
Date of filing	05/08/2012
Parties to the claim	Federal Tax Authority (Plaintiff) and Vale (Defendant)
Values, assets or rights involved	R\$ 4,457 in December 2012 (amount included in the main administrative procedure described in item 5 above, added with legal fees)
Main factors	On May 8, 2012, although the decision granting the injunction related to item 1.3 has yet to be published and despite of the effective suspensive effect of the preliminary order granted by the STJ, the Federal Tax Authority filed a tax assessment notice to collect the amounts of IRPJ and CSLL supposedly due, considering the administrative decision mentioned in item 5 above.

Table of Contents

Vale filed for injunction to attribute a suspensive effect to the extraordinary appeal filed in the writ of mandamus (item 1), with consequent suspension of applicability of amounts related to IRPJ and CSLL being discussed. On May 9, 2012, Justice Marco Aurélio Mello, from the Federal Supreme Court granted the injunction, confirmed by unanimity of votes on April 10, 2013

The Tax Authority filed a request to block and seize monies through the BACENJUD system, which was denied.

In view of the decision by the Federal Supreme Court presented in the records by Vale, the Court suspended this assessment and issued an order for summoning.

Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	In the event of an unfavorable outcome related to the Injunction object of item 1.4, Vale may have to guarantee to suspend the applicability of the amounts in question.
Allocated amount (if any)	None

5.7) Development of Notice of Infraction no. 12897.000023/2010-36: Writ of mandamus no. 35681-31.2012.4.01.3400

Court	1st Tax Collection Court of the Federal District
Instance	1st federal instance
Date of filing	07/13/2012
Parties to the claim	Vale (Defendant) and Federal Tax Authority (Plaintiff)
Values, assets or rights involved	Not applicable
Main factors	On July 13, 2012, Vale filed a writ of mandamus to annul the measure taken by the President of the 3rd Chamber of the 1st CARF Section, which ordered the early dismissal of administrative process no. 12897.000.023/2019-36 (item 5). On July 19, 2012, a decision denied the injunction that had not been requested by the Company. Considering that a request for injunction had not been made, Vale filed a petition for reconsideration, which was denied. Faced with this decision, on August 22, 2012, Vale filed the interlocutory appeal held on the record, which is still pending.
Probability of loss	Possible
Analysis of impact in case of loss/Reasons for the importance of the claim to the Company	Not applicable
Allocated amount (if any)	None

(III) Civil

The tables below present a description of individual civil nature processes considered relevant to the business of the company and/or its subsidiaries.

1) Claim no. 0063023-34.2008.8.19.0001

Jurisdiction	41st Civil Court of the Court of Justice of Rio de Janeiro
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Instance	1st Instance
Date of filing	03/17/2008
Parties in the suit	Vale (plaintiff) and Movimento dos Sem Terra MST (defendant)
Amounts, goods or rights involved	Protection of the company's assets and guarantee of its operations

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Table of Contents

Main facts	Vale filed a common suit with a request for anticipated relief obliging the defendant to cease attacks, violent acts or incitements which cause the operational stoppage of the company by the MST. Relief was granted, as soon as the case was judged in the year 2008, establishing that the MST must refrain from such acts. The MST failed to comply with the granted court injunction, reason why Vale requested an increase in the established fine in the event of noncompliance, which was granted by the court.
Chances of loss	Remote
Analysis of impact in the case of losing the suit/ Reasons for importance for the Company	The lawsuit was initiated in order to ensure the protection of the assets of the company and its operational activities. A possible unfavorable decision can increase the exposure of the company to MST attacks.
Amount provisioned (if any)	None.

2) Claim no. 0015963-69.2006.4025101

Jurisdiction	7th Specialized Panel of the Federal Circuit Court of Appeals of the 2nd Region (Court of Origin: 30th Court of the Federal Court of Rio de Janeiro)
Instance	2nd Instance
Date of filing	08/18/2006
Parties in the suit	Federal Rail Network (Rede Ferroviária Federal S.A.), succeeded by the Federal Union (plaintiff) and Vale (defendant)
Amounts, goods or rights involved	R\$ 3,461,310,446.26 (three billion, four hundred sixty one million, three hundred ten thousand, four hundred forty six reais and twenty six cents).
Main facts	The plaintiff filed a claim for reparation from the Company to receive contractual amounts, damages, lost profits, among other amounts, for alleged breach of contractual obligations on the part of Vale. The contract concluded between the parties involved railway transposition in the city of Belo Horizonte. The parties have reached a partial settlement, through which the construction costs of the new railroad segment will be offset from an eventual conviction of Vale, if any, if the claim is judged in favor of the Federal Government. This agreement was legally approved. On June 25, 2012, a sentence rendered the lawsuit unfounded. The Federal Government filed an appeal that is still awaiting judgment.
Chances of loss	Remote
Analysis of impact in the case of losing the suit/ Reasons for importance for the Company	Any unfavorable decision could generate a financial loss for the company, in the light of the amounts involved.
Amount provisioned (if any)	None

3) Claim no. 0009362-71.1997.4.02.5001

Jurisdiction	5th Panel of the Federal Circuit Court of Appeals of the 2nd Region
Instance	2nd Instance
Date of filing	11/10/1997
Parties in the suit	Federal Public Prosecutor Espírito Santo (plaintiff) and Federal Union, Gerdau, Açominas S.A., Companhia Siderúrgica de Tubarão, Usinas Siderúrgicas de Minas Gerais S.A., Vale, Odacir Klein, Luis Andre Rico Vicente, Jorge Eduardo Brada Donato, José Armando Figueiredo Campos, Rinaldo Campos Soares, João Jackson Amaral, Claudio José Anchieta de Carvalho Borges, Ivo Costa Serra and Companhia Docas do Espírito Santo - CODESA (defendants)
Amounts, goods or rights involved	Incalculable amount application for annulment of the concession contract for use of port terminals for the Tubarão Complex.
Main facts	This is a Public Civil Action which aims to annul the authorization by

Table of Contents

which Vale and some of the other defendants operate the Port Terminal at Praia Mole, in the State of Espírito Santo. In November 2007, after 10 years of conducting the proceedings, Vale obtains a favorable decision judging the requests to be without foundation and recognizing the validity of contracts of accession that allow exploitation of port terminals located in Praia Mole. On 07/03/2012, the 1st instance court decision was upheld by the Federal Circuit Court of Appeals of the 2nd Region when the appeal filed by the Prosecutor's office was heard. Face with this decision, the Prosecutor's Office filed, on 10/23/2012, special and extraordinary appeals, which, after Vales presented its objection, is waiting examination of admissibility before the Court's Vice-Presidency.

Chances of loss	Remote
Analysis of impact in the case of losing the suit/ Reasons why it is relevant to the Company	Incalculable amount
Amount provisioned (if any)	None

4) Claim no. 0024892-89.2011.8.13.0570

Court	1st Civil Court of the District of Salina / MG
Instance	1st Instance
Date of filing	09/14/2011
Parties in the suit	Minas Gerais State's Prosecutor (Plaintiff), Vale S.A., Minas Gerais Land Institute - ITER, Manoel da Silva Costa Junior, Evandro Carvalho, Mauro Eurípedes Rocha Mendes, Ricardo de Carvalho Rocha, Luciana Rocha Mendes, Orozino Marques de Carvalho, Adelzúth Marques Santos, Altemar Alves Ferreira, Breno Rodrigues Mendes (Defendants).
Amounts, goods or rights involved	Compensation for damages to the State of Minas Gerais in the minimum amount of R\$ 200 million, civil fine in an amount of no less than R\$ 600 million, plus the lands acquired by Vale.
Main facts	This is a Public Civil Action filed by the State's Prosecutor against Vale and other 10 defendants, in which the Prosecutor claimed that an organized group of people acted with the intention of illegally taking ownership of lands belonging to the State of Minas Gerais. The prosecutor requested an injunction of the defendants assets, with the exception of Vale's, up to R\$ 200,000,000.00, in addition to the search and seizure of tangible properties and the lifting of tax and bank secrecy. The petition was granted in first instances and upheld by Minas Gerais' Court of Justice when the defendants filed appeals. At the end, the Prosecutor petitioned the stay of all effects with consequent annulment of all agricultural title that had been issued by the ITER involving the lands located in the Municipalities of Salinas, Santa Cruz de Salinas, Padre Carvalho, Fruta de Leite, Rubelita, between January 2007 and August 2011; that the ITER was convicted to hire, at their own expense, a specialized company to audit all legitimate titles issued by the State of Minas Gerais, whose amount could correspond to R\$ 200,000,000.00, a civil fine in the amount of no less than R\$ 600,000,000.00, the loss of public roles and positions, the stay of political rights, and a ban from providing service or benefitting in any way from the government. Vale filed objection on March 15, 2012 and the lawsuit is still in the discovery phase.
Chances of loss	Possible
Analysis of impact in the case of losing the suit/ Reasons why it is relevant to the Company	Damages to the Company's image as its name is associated with land-grabbing in the Northern region of the State of Minas Gerais, and due to the annulment of acquisition and loss of amounts paid by Vale (approximately R\$ 35 million)
Amount provisioned (if any)	None

Table of Contents

(IV) Environmental

The tables below present a description of individual environmental nature processes considered relevant to the business of the company and/or its subsidiaries.

1) Claim no. 0317.02.002974-8

Jurisdiction	2nd Civil Court of Itabira - Minas Gerais
Instance	1st Instance
Date of filing	09/26/1996
Parties in the suit	City of Itabira (plaintiff) and Vale (defendant)
Amounts, goods or rights involved	R\$ 3,483 billion
Main facts	The municipality of Itabira seeks compensation for expenses that it alleges to have incurred with public services rendered as a consequence of Vale's mining activities. The case was suspended, pending judgment of a writ filed by Vale to be used in this lawsuit, so that favorable evidence produced in another lawsuit could be used. On January 2012, the writ was judged against Vale. However, the case remains suspended because the court in the first degree has not yet received from the Court of Justice of Minas Gerais information on the writ. After this communication, the lawsuit may resume its normal course.
Chances of loss	Total amount divided into possible loss (15%) and remote loss (85%).
Analysis of impact in the case of losing the suit/ Reasons for importance for the Company	Any unfavorable decision in the lawsuit would generate financial losses for the Company.
Amount provisioned (if any)	None.

2) Claim no. 0317.02.007032-0

Jurisdiction	1st Civil Court of Itabira - Minas Gerais
Instance	1st Instance
Date of filing	08/22/1996
Parties in the suit	City of Itabira (plaintiff) and Vale (defendant)
Amounts, goods or rights involved	R\$ 3.007 billion
Main facts	Suit filed in the municipality of Itabira, in the State of Minas Gerais, in which the plaintiff claims that the operations of the iron mines in Itabira caused environmental and social damage and requires the restoration of the site and the implementation of environmental programs in the region. Expert witnesses were used in this case, and the report issued jointly by IBAMA and FEAM was favorable to Vale. Nevertheless, the Municipality requested the production of new expert

Table of Contents

<p>Chances of loss Analysis of impact in the case of losing the suit/ Reasons for importance for the Company Amount provisioned (if any)</p>	<p>evidence, which was accepted by the judge. For this purpose, a multidisciplinary team from the Federal University of Lavras as appointed. On November 6, 2012, there was a settlement hearing in which the petition to stay the lawsuit was granted until May 6, 2013 in order to form the parties. Total amount divided into possible loss (7%) and remote loss (93%). Any unfavorable decision in the lawsuit would generate financial losses for the Company. None.</p>
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4.4 In-court, administrative or arbitration proceedings that are not confidential involving managers, former managers, controllers, former controllers or investors

1) Claim no. 12707 (PAS CVM 14/2005)

<p>Jurisdiction Instance Date of filing Parties in the suit</p>	<p>Appeals Council of the National Financial System – CRFSN 2nd Instance 08/23/2005 This suit was initiated by CVM, as a result of a complaint from the investment club of SUDFER Railway Workers, minority shareholder of MRS Logística S.A. (MRS), against: Vale (successor of Ferteco Mineração S.A.); Companhia Siderúrgica Nacional - CSN; Minerações Brasileiras Reunidas S/A - MBR; and the directors of MRS who were involved from 1998 to 2002, namely: Alberto Régis Távora, Andreas Walter Brehm, Chequer Hanna Bou-Habib, Delson de Miranda Tolentino, Estela Maria Praça de Almeida, Henrique Ache Pillar, Hugo Serrado Stoffel, Georg Josef Schmid, Godofredo Mendes Vianna, Guilherme F. Escalhão, Inácio Clemente da Silva, João Paulo do Amaral Braga, Joaquim de Souza Gomes, José Paulo de Oliveira Alves, Julio César Pinto, Julio Fontana Neto, Klaus Helmut Schweizer, Lauro H. Campos Rezende, Luiz Antonio Bonagura, Marcus Jurandir de A. Tabasco, Marianne Von Lachmann, Mauro Rolf Fernandes Knudsen, Oscar Augusto de Camargo Filho, Otávio de Garcia Lazcano, Pablo Javier Q. Bruggemann, Rinaldo Campos Soares, Roberto Gottschalk, Valter Luis de Sousa and Wanderlei Viçoso Fagundes.</p>
<p>Amounts, goods or rights involved</p>	<p>Assessment of possible irregularities related to tariff model of MRS between 1998 and 2002.</p>
<p>Main facts</p>	<p>The lawsuit was initiated by CVM to verify (i) the conduct of MRS directors for alleged tariff mismanagement, characterized by undervalued tariffs for the benefit of captive customers or owners; and (ii) the conduct of the MRS shareholders for contracts signed directly with MRS on allegedly non-equitable terms.</p>
<p>Chances of loss Analysis of impact in the case of losing the suit/ Reasons for importance for the Company</p>	<p>The suit was judged by the CVM on 05/05/2009, which acquitted all those involved. At the end of 2009, CVM filed an appeal (No. 12707) at CRFSN, which was received on 11/04/2009. That appeal is still pending judgment, having been directed, on 11/09/2009, to PGFN/CAF, for the issuance of an opinion. On 10/29/2012, the appeals rapporteur was chosen. Remote. The eventual reversal of the decision at the first instance can result in the application of a warning or fine for the company.</p>

Amount provisioned (if any)

None.

Table of Contents

2) Claim no. 005530-40.2007.8.19.0001

Jurisdiction	Prosecution in progress before 48th Civil Court of the Justice Court of Rio de Janeiro. Interlocutory Appeal before the 2nd Section of the Special Court of the STJ and Extraordinary Appeal still not delivered to the STF.
Instance	3rd Instance
Date of filing	05/09/2007
Parties in the suit	Petros (plaintiff) and Vale (defendant)
Amounts, goods or rights involved	Vale was requested to make an escrow deposit as payment on 03/08/2010 in the amount of R\$ 346,773,910.20, due to the temporary collection claim filed by Petros. Although no final decision has been rendered yet, on 08/23/2011, Petros, to increase the amount deposited in escrow, presented a surety bond issued by Banco Bradesco in the amount of R\$ 497.0 million.
Main facts	Petros claims receipt of purges made because of inflation arising from the economic plans called Plano Verão and Plano Collor on amounts paid under forward contracts for buying and selling gold concluded with Vale from 1988. Contracts under discussion in this brief were paid up and settled by Petros at that time. However, Petros started legal proceedings aimed at applying the decision on a matter taken in the STJ for savings accounts books, to contracts concluded with Vale. Vale maintains that the inflationary adjustments are not due; however, all decisions have been unfavorable to the company. Currently the original process is in the implementation stage, but the decision is not yet firm. Vale has a Special Recourse filed with STJ, which was unanimously rejected by the Panel. Faced with this decision, Vale filed a Motion for Clarification and, later a divergence appeal, both of which were denied by the Reporter. In order to have the divergence appeal accepted, Vale filed an Interlocutory Appeal that is still pending judgment in the Special Court. Even if this decision can still be reversed, Vale was determined to pay R\$ 346,773,910.20 claimed by PETROS in the lawsuit. To increase the amount deposited in escrow, Petros presented a bank surety bond in the amount of R\$ 497.0 million.
Chances of loss	If there are changes in the merit of the case, Vale shall be entitled to recover that amount by enforcing the bank guarantee provided by Petros. There also is an Extraordinary Appeal to be processed and judged by the Supreme Court. There is also a Special Recourse to be dealt with and decided by STF. Probable
Analysis of impact in the case of losing the suit	If a decision unfavorable to Vale becomes final (res judicata), the Company shall not have to pay anything else taking into account the escrow deposit of R\$ 346,773,910.20 mentioned above. Additionally, such a decision can open a precedent for similar judgments in other cases where future contracts for sale of gold are in dispute (total of 12 cases, including this one. For more details see item 4.6 of this Reference Form).
Amount provisioned (if any)	No amount has been allocated given the escrow deposit made by Vale, which was withdrawn by Petros, upon the presentation of bank guarantee.

3) Claim no. 0079940-46.2010.4.01.3800

Jurisdiction	18th Federal Court of Belo Horizonte Minas Gerais
Instance	1st Instance
Date of filing	02/18/2004
Parties in the suit	Transger S/A (plaintiff) and Ferrovia Centro Atlântica S/A, Mineração Tacumã Ltda, KRJ Participações S/A, CPP Participações S/A, Carmo Administração e Participações Ltda, Fundação Vale do Rio Doce de Seguridade Social - Valia and Companhia Siderúrgica Nacional - CSN

Table of Contents

<p>Amounts, goods or rights involved Main facts</p>	<p>Incalculable Request for annulment of the General Meeting.</p> <p>The plaintiff brought a lawsuit requesting compensation and annulment of the General Meeting authorizing the capital increase of Ferrovia Centro-Atlântica S.A. (FCA) in early 2003 on the grounds of alleged practice of abusive acts by FCA s controlling group. The request was initially judged well founded, but the judgment was reversed by the Court of Justice of Minas Gerais, which annulled all the judicial proceedings instituted up to then and therefore determined the production of new expert evidence. During the preparation of the new expert evidence, the National Agency of Land Carriage (ANTT, according to the initials in Portuguese) stated its interest in participating in the case and, for this reason, the jurisdiction in this procedure was transferred to the Federal Justice of Minas Gerais.</p> <p>The judge of the 18th Federal Court of Belo Horizonte issued a decision recognizing the jurisdiction of the Federal Courts to judge the case because of ANTT s interest in the maintenance of the concession and accurateness of the administrative act. ANTT was allowed to intervene as an assistant. In view thereof, ANTT requested to examine the files for 15 days and CSN filed an interlocutory appeal, which was rejected by the Court of the 1st Region based on the illegitimacy of such party. The Judge of the 18th Federal Court of Belo Horizonte received FCA s motion not to accept the expert Nelson Ferreira Santos based on his possible impartiality and ordered his summoning to comment on the content of the allegations. The expert required to examine the files to learn about the facts, but did not provide any clarification. Afterwards, ANTT was allowed to examine the records, ratifying the validity of the Act authorizing increase of FCA s capital stock. After this manifestation by the ANTT, the parties were summoned to present final arguments, an ordered appealed against by Mineração Tacumã Ltda., in a specific petition and appeal, altering the Court that the records were not ready for a decision on merits due to several issues for which analysis and discussion were pending. There is no manifestation by the Court on this matter.</p>
<p>Chances of loss Analysis of impact in the case of losing the suit / Relevance to the Company Amount provisioned (if any)</p>	<p>Possible Incalculable amount None</p>
<p>4. Procedure No. 0529364272010.8.13.0145</p>	
<p>Jurisdiction Instance Date of filing Parties in the suit</p>	<p>7th Civil Court of Juiz de Fora/Minas Gerais 1st Instance August 2010 SUDFER (plaintiff), and MRS Logística S.A., Companhia Siderúrgica Nacional S.A., Minerações Brasileiras Reunidas S.A., Usiminas Usinas Siderúrgicas de Minas Gerais, Gerdau S.A. and Vale S.A. (defendants)</p>
<p>Amounts, goods or rights involved Main facts</p>	<p>Incalculable Plaintiff asserts that MRS Logística adopted a tariff policy aiming to favor its controlling group, specifically the defendants ; a complaint was even filed before CVM, which through the appointed Committee of Inquiry-acknowledged that the complaint filed by Clube SUDFER on the irregularities of the group was true. Plaintiff requested: 1) Temporary relief determining that the Defendants hire with a subsidiary on equal terms, taking into consideration the maximum</p>

Table of Contents

allowable tariff; 2) To order the Defendants to pay any and all direct material damages imposed on MRS Logística until the improper practice has been stopped, due to the unfair reduction of the profits of the company, due to the non-payment of dividends, and due to the payment of less dividends in view of the reduced tariffs charged to the controlling group.

In January 2011, Vale and MBR filed their pleas. Main proceedings will be suspended until judgment of dismissal for lack of jurisdiction also filed by the defendants is passed, thus, aiming at determining in the mining trial, if the court is competent to hear the case or whether in fact the competent forum is Rio de Janeiro.

The motions were received by the Court of Justice of the State of Minas Gerais. We are waiting for the decision to be final (res judicata) and for the files to be sent to the Court of Justice of the State of Rio de Janeiro.

Chances of loss	Possible
Analysis of impact in the case of losing the suit / Relevance to the Company	Any unfavorable decision in the lawsuit would generate financial losses for the Company and would damage its image.
Amount provisioned (if any)	None

5) Procedure No. 0497166342010.8.13.0145

Jurisdiction	8th Civil Court of Juiz de Fora Minas Gerais
Instance	1st Instance
Date of filing	August 2010.
Parties in the suit	SUDFER (plaintiff) and Júlio Fontana Neto, Henrique Aché Pillar, José Paulo de Oliveira Alves, Pablo Javier de La Quintana Bruggemann, Lauro Henrique Campos Rezende, Wanderlei Viçoso Fagundes, Hugo Serrado Stoffel, Guilherme Frederico Escalhão, Delson de Miranda Tolentino, Marcus Jurandir de Araújo Tambasco, Chequer Hanna Bou-Habib, Roberto Gottschalk, Joaquim de Souza Gomes, Luiz Antônio Bonaguara, Companhia Siderúrgica Nacional S.A., Minerações Brasileiras Reunidas S.A., Usiminas Usinas Siderúrgicas de Minas Gerais, Gerdau S.A., and Vale S.A. (defendant)
Amounts, goods or rights involved	Incalculable
Main facts	The Plaintiff requires payment for moral damages based on the fact that the image of Clube SUDFER was enormously damaged for 9 years, and that said company did not receive dividends, and thus, was in pre-insolvency status. Plaintiff also requires shares to be sold under same conditions as it had the right to purchase at the time of the 2nd offer of shares made by MRS Logística, besides the loss of earnings by the dividends not received. MBR, like Vale, is one of the defendants because it is the controlling shareholder of MRS. On 03/15/2012, Vale, MBR and the managers (Chequer Hanna Bou-Habib, Guilherme Frederico Escalhão, Hugo Serrado Stoffel and Roberto Gottschalk) spontaneously submitted their arguments, as agreed by the defendants. We also present a lack of competence exception, aiming to have the claim remitted to Rio de Janeiro, which was accepted. The decision is waiting to become res judicata. In the meantime, discussions on merits are suspended.
Chances of loss	Possible
Analysis of impact in the case of losing the suit / Relevance to the Company	Any unfavorable decision in the lawsuit would generate financial losses for the Company and would damage its image.
Amount provisioned (if any)	None

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Table of Contents

6) Procedure No. 2010.51.01.002548-3 Writ of Mandamus

Jurisdiction	32nd Federal Court of Rio de Janeiro
Instance	1st Instance
Date of filing	10/25/2012
Parties in the suit	Clube SUDFER (Plaintiff) and the President of the Tangible Values Commission - CVM, Alberto Regis Távora, Chequer Hanna Bou-Habib, Vale S.A., Companhia Siderúrgica Nacional S.A., Delson de Miranda Tolentino, George Josef Schmidt, Godofredo Mendes Vianna, Henriq Ache Pillar, Inacio Clemente da Silva, Joao Paulo do Amaral Braga, Joaquim de Souza Gomes, Jose Paulo de Oliveira Alves, Julio Cesar Pinto, Julio Fontana Neto, Klaus Helmut Schweizer, Lauro Henrique Campos Rezende, Luiz Antonio Bonaguara, Marcus Jurandir de Araujo Tambasco, Marianne von Lachmann, Minerações Brasileiras Reunidas S.A., Pablo Javier de la Quintanna Bruggemann, Rinaldo Campos Soares, Valter Luis de Sousa, Wanderlei Vicoso Fagundes, Otavio de Garcia Lazcano, Andreas Walter Brehm, Guilherme Frederico Escalhão, Hugo Serrado Stoffel, Oscar Augusto de Camargo Filho, Roberto Gottschalk, Estela Maria de Almeida Palombo, Mauro Rolf Fernandes Knudsen (defendants).
Amounts, goods or rights involved	Incalculable
Main facts	<p>SUDFER is seeking an injunction to suspend sanctioning administrative case no. 14/05 so that, before the case's merit is judged, it can keep the National Finance System's Appeals Council from examining the mandatory review filed by the CVM, under penalty of receiving a fine established by the Judge in the event of noncompliance with the court order and, if necessary, to order imprisonment for failing to comply with the court order. In the merit, it is requested that the full writ of mandamus is granted based on the cited irregularities, rejecting the decision that denied the administrative petition for the annulment of the judgment pronounced by the sanctioning administrative case no. 14/05, thus determining that the records are sent back to the CVM for a new trial, which shall be presided by a new panel, and judging all of the barred and/or suspicious directors who participated in the 1st trial, for they rendered their vote in a clearly fraudulent lawsuit, which violated the principles of impartiality, morality, legitimacy, impersonality, adversarial proceedings and full defense, in addition to the disposition of the Federal Constitution from 1988 and of law no. 6.404/76. The injunction was granted by the first instance court after the CMV's President presented his defense. The sanctioning administrative proceeding no. 14/2005 was suspended so as to prevent the examination of the mandatory review by the National Financial System's Appeals Council until the merit of the writ of mandamus is examined. However, CVM has filed an interlocutory appeal to revoke the injunction, which was granted, and is now ineffective/ therefore, the MPF expressed an opinion that all defendants should be cited in the administrative proceedings in question, since the writ of mandamus decision will directly affect them, not to mention that it will secure the right to a full defense and of adversarial proceedings, given their interest in the case. Grounded in this, the judge ordered the regularization of the defendants and consequently, the citation of the companies' shareholders and managers.</p> <p>On 6/8/2011 the defense of Vale, MBR and the following managers - Andreas Walter Brehm, Guilherme Frederico Escalhão, Hugo Serrado Stoffel, Roberto Gottschalk, Oscar Augusto de Camargo Filho, Inácio Clemente da Silva and Chequer Hanna Bou-Habib - were presented. Currently, we are still waiting for all defendants to be cited.</p>
Chances of loss	Remote

Table of Contents

Analysis of impact in the case of losing the suit / Relevance to the Company	Any unfavorable decision in the lawsuit would generate financial losses for the Company and would damage its image.
Amount provisioned (if any)	None

4.5 Relevant confidential claims

Not applicable. Vale is not a party in any relevant and sensitive cases.

4.6 Publicly known and relevant repeated or related in-court, administrative or arbitration proceedings

(i) Labor

This item 4.6 of the Reference Form includes the amount allocated in relation to repeated or related claims. Given the size of the company, the number of employees and service providers and the number of labor claims, only those repetitive processes that represent more than 5% (five percent) of all claims filed against the company on December 31, 2012, were taken into account, namely: joint liability (13%), overtime (10%), additional payment due to unhealthy or risky work environments (7%), fines (7%) and commuting hours (6%). In addition to the procedures outlined in items above, the group's controlling company is also involved in some claims regarding labor issues, which amount to R\$ 692.5 million that are allocated.

Fact and/or legal cause	The more recurring objects are subsidiary/joint liability, overtime, additional payment for hazardous/unhealthy conditions, hours <i>in itinere</i> and fines.
Amounts involved	R\$ 2.9 billion
Amount provisioned (if any)	R\$ 752.2 million
Company practice or that of subsidiary which caused the contingency	Difference of interpretation given by the company, employees and unions to various facts, legal and regulatory instruments concerning the issues above.

(ii) Tax

Fact and/or legal cause	Discussion about the taxable base for the calculation of the Financial Compensation for Exploring Mineral Resources – CFEM (for its acronym in Portuguese)
Amounts involved	R\$ 5,756 billion (in December 2012) for various collections of CFEM.
Amount provisioned (if any)	Approximately R\$ 1,060 million (in December 2012)
Company practice or that of subsidiary which caused the contingency	Vale is involved in many administrative and legal proceedings concerning the collection of CFEM. Such claims result from tax assessments by the National Department of Mineral Production – DNPM, an independent government agency under the control of the Ministry of Mines and Energy and involve discussions on the alleged difference in values resulting from tax deductions and travel expenses, arbitration and prescription term for collection, incidence of CFEM on pellets and on final client's sales invoicing

abroad.

In order to revise the CFEM taxable base amounts, the Federal

Table of Contents

Government created, in 2011, a working group with representatives from Vale and DNPM. In December 2012, this group determined it was necessary to reduce the amount charged by R\$ 846 million.

In 2012, Vale changed the discussion's loss prognosis regarding the deduction of expenses with transportation from possible to probable. In 12/31/2012, the CFEM provision was of approximately R\$ 1,060 million. In that same year, Vale finished paying the amount relative to that term that had not been fined by the DNPM, an amount of approximately R\$ 301 million.

In 2013, Vale settled the amounts assessed relative to the deduction of transportation expenses, an amount of approximately R\$ 444 million.

**Fact and/or legal cause
Amounts involved**

Collection of State VAT (ICMS) on interstate transfer of ore.

In Minas Gerais:

Original total amount: R\$ 2.1 billion Residual amount paid by Vale to settle the lawsuits: R\$ 168 million.

In Pará:

Original total amount: R\$ 544 million (12/31/2012)

**Amount provisioned (if any)
Company practice or that of
subsidiary which caused the
contingency**

None

Vale contested the ICMS (value-added tax) allegedly due to the State of Minas Gerais because there were disagreements in the calculation basis of the taxes due in the interstate transfer of iron through 18 administrative proceedings, 12 of which were originally notices of infraction issued in 2012.

Due to changes in the legislation which considerably reduced the fines imposed, Vale decided to pay off the amounts charged by the State of Minas Gerais and quit the administrative discussions that were then ongoing. The total amount paid in 2012 to settle the proceedings correspond to R\$ 168 million.

In 2012, the State of Pará issued three notices of infraction that were similar to those filed by the State of Minas Gerais. The defenses that were presented are pending decision.

(iii) Civil

Fact and/or legal cause

Twelve pension funds claim receipt of purges made because of inflation arising from economic plans called Plano Verão and Plano Collor on amounts paid under contracts for buying and selling gold concluded with Vale from 1988. More specifically, in the Petros case, Vale was determined to pay the R\$ 346,773,910.20 requested and withdrawn by PETROS, upon the posting of a bond.

Amounts involved

R\$ 157,162,876.82 (one hundred fifty seven million, one hundred sixty two thousand, eight hundred seventy six reais and eighty two cents) total value from the other 11 remaining cases, excluding the Petros case.

Amount provisioned (if any)

R\$ 4,113,360.41 (four million, one hundred and thirteen thousand, three hundred and sixty reais and forty one cents) to the ELETROS case.

**Company practice or that of
subsidiary which caused the
contingency**

The contingency has been generated according to the edition of economic plans called Plano Verão and Plano Collor, both created by the Federal Government between 1989 and 1991. The contracts in discussion around these were all paid and given as settled by the

Table of Contents

plaintiffs at the time. However the plaintiffs started legal proceedings aimed at applying the decision on a matter judged in the STJ for savings accounts books, to contracts concluded with Vale. Vale maintains that repayment of inflationary purges is not due.

4.7 Other significant contingencies

We are currently involved in discussion with Swiss authorities regarding the granting of tax benefits to our Swiss subsidiary, Vale International. The dispute was resolved in December 2012 when Vale International paid the additional federal taxes claimed by the Swiss federal authorities, in four payments in the total amount of CHF 212 million Swiss francs. The first payment of CHF 53.2 million was made in January 2013 and we expect to make the final payment in 2015.

Vale International's federal and regional tax exemptions were renewed at a rate of 80% through 2015, and are subject to certain conditions related to employment, real estate investment, and collaboration with Swiss universities.

Relevant Conduct Modification Agreements and Terms of Commitment

Vale is a party in the following relevant terms of commitment and conduct modification agreements:

(i)

Cooperation Agreement not resulting from Administrative / Legal Proceeding

Origin: Terms of Engagement signed with the Indigenous Community (TI) Mãe Maria

a) Parties

Vale, Indigenous Association Te Mêmepapytarkate Akrätikatêjê da Montanha, Jê Jôkrityiti (Akrâkaprekti) Association, Indigenous Association Parkatêjê Amjip Tar Kaxuwa and Indigenous Association Kyikatêjê 03/01/2012, 07/27/2012, 07/24/2012, and 08/02/2012

b) Agreement Date

c) Description of the facts that have led to entering this agreement

Based on its social accountability policy, Vale already had entered into Engagement Agreements with the indigenous individuals from the Mãe Maria TI, which expired in 2012. Therefore, due to the influence of the Carajás Railroad (EFC) on this community, Vale decided to continue to send funds to meet the urgent needs of the individuals from this community, making sure that the Indigenous Component study and Basic Environmental Plan (PBA) were conducted, documents that are required for the licensing process to expand the Carajás Railroad.

d) Commitments made

To continue to invest in the implementation of projects in productive activities. On the other hand, indigenous communities commit not to stop any productive activity or invade our facilities, in particular the Carajás Railroad, and they also authorize the Indigenous Component study and the Basic Environmental Plan (PBA), documents that are required for the

e) Deadline, if any

licensing process to expand the Carajás Railroad.

Many different deadlines, with commitment to be met up to the end of the installation project of the Carajás Railroad expansion.

f) Information about the conduct adopted to comply with the commitments made in the agreement

The Community Relations Director had two focal points monitoring compliance with the commitment made in the Engagement Agreement, in particular the transfer of financial resources.

g) Consequences in the event of noncompliance

Failure to comply with the commitments made would immediately lead to social/indigenous movement that may have implications on the company's railroad operations (interference in the railroad line). Said manifestations by the indigenous people also tend to restrict freedom of access of Vale's teams and hired third parties who run diagnostics or conduct studies on the environment and communities under the direct and

Table of Contents

indirect influence of the activities developed by the company in the regions covered by the agreement, threatening the environmental licenses granted by the environmental entity, with not prejudice to the executive measures to be taken by the Federal Prosecution Office, IBAMA, FUNAO, and the other autarchies involved with the protection of indigenous rights.

h) Other notes

-

(ii)

Legal Agreement

Origin: Proceeding no. 21337.52.2011

a) Parties

Vale, Federal Prosecution Office, Palmares Cultural Foundation, National Institute for Colonization and Land Reform, and the Brazilian Institute for the Environment and Renewable Natural Resources.

b) Agreement Date

03/08/2012

c) Description of the facts that have led to entering this agreement

The Federal Prosecution Office has accused Vale, who subsidized the licensing process for the Carajás Railroad expansion, of lacking the environmental study investigating the diagnostic impact of the expansion on the two *quilombo* communities located in the State of Maranhão.

d) Commitments made

(i) Transfer the amount of R\$ 700,000.00 to the Palmares Foundation to help with the construction of clinics and of an educational center; and

(ii) Development of a study of the local environmental impact, recovery of waterways, and the building of overpasses in the next four years, as specified in the legal agreement schedule.

e) Deadline, if any

Sparse deadlines, with commitment to be met through the end of the Carajás Railroad expansion project. Among them are: (i) the already made payment of R\$ 700,000.00 to the communities to finance the building of social devices in the community and Palmares Foundation; (ii) development of an environmental study already done and the adoption of measures to mitigate the impact of the company's operation and activities in the region (estimated to happen in 2013); (iii) building of four overpasses for the communities that are parties in the agreement and with a deadline of construction extending over four years; and (iv) improvement of the current passageways until the overpasses are built in the region (activities underway and estimate to be concluded in December 2013).

f) Information about the conduct adopted to comply with the commitments made in the agreement

The General Manager of Project Relations, who works under the Director of Northern Logistic Projects (DIPL), focuses on engineering and public relations, monitoring compliance with the activities developed by the company. The commitments and deadlines reflect the item above.

g) Consequences in the event of noncompliance

The Federal Prosecution Office may request that the company comply with the commitments made, under penalty of a fine determined by a competent federal judge.

h) Other notes

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Table of Contents

(iii)

Conduct Modification Agreement (TAC) no. 283/2004

Origin: Preparation Proceeding no. 0203/01 - Regional Labor Public Prosecution Office of the 1st region Rio de Janeiro

a) Parties	Labor Prosecution Office and Vale S.A.
b) Agreement Date	12/15/20014
c) Description of the facts that have led to entering this agreement	Need to train and hire people with disabilities to meet legal requirements, in particular the quota set forth in article no. 93 of Law no. 8.212/91
d) Commitments made	To professionally train about 34 to 40 disabled people to start. To develop a national program. To enter into partnerships with Organization like SENAI for training. During training, to provide transportation, food, and medical care. After training, to hire people with disabilities.
e) Deadline, if any	The TAC is renewed yearly and it indicates the year's quota for training and hiring.
f) Information about the conduct adopted to comply with the commitments made in the agreement	Development of an inclusion program for people with disabilities.
g) Consequences in the event of noncompliance	R\$ 1,000.00 per worker that is not trained and hired, within the quota for that particular year
h) Other notes	The TAC allows Vale to fail to fully comply with the quote set forth by Law no. 8.212/91, while complying with obligations set forth therein. If there is noncompliance with the TAC, Vale must immediately meet the quote specified by the Law, losing this requirement provided by the Agreement .

(iv)

Environmental Obligation Agreement: TCA at do Pico do Itabirito

Origin: Public Civil Investigation no. 319.02.0001-8 MPMG

a) Parties	Minerações Brasileiras Reunidas S.A., Vale S.A., Ministério Público Estadual-MG, Instituto Estadual de Florestas, Secretaria de Estado do Meio Ambiente e Desenvolvimento Sustentável de Minas Gerais, and Anglogold Ashanti Brasil Mineração Ltda.
b) Agreement Date	7/9/2010
c) Description of the facts that have led to entering this agreement	Agreement signed for the enforcement of protection measures to the area known as Pico do Itabirito and archeological site of Cata Branca.
d) Commitments made	Environmental and landscape remediation in protected areas.
e) Deadline, if any	Schedule presented to the State Prosecution Office expected conclusion: July 2015.
f) Information about the conduct adopted to comply with the commitments made in the agreement	Procedures to recover areas in progress, with fencing and signage as archeological site, environmental education programs and environmental remediation project at the area known as Pico do Itabirito.

- g) Consequences in the event of noncompliance**
- h) Other notes**

Fine R\$2,500.00/day delaying enforcement of the agreed and non-complied with portion.

-

4.8 Rules of the country of origin and of the country in which the securities are held in custody

Not applicable to the Company, as it is not a foreign issuer.

Table of Contents

5.1 Description of the main market risks

Considering the nature of the business and operations of Vale, the main factors of market risk to which the company is exposed are:

- product and inputs prices;
- exchange rates; and
- interest rates.

Risk of product and inputs prices

Vale is exposed to market risks related to price volatility for commodities and inputs. The Company's main products are: iron ore and pellets, nickel, copper products, fertilizers and coal. The Company's main input are different material and equipment, including tires, transporting belts, parts and components of mining equipment, rail equipment, industrial facilities and workshop maintenance, fuels and gases, and electric power.

For more information on the risk of product prices, see item 4.1 in this Reference Form.

Exchange risk and interest rate

Company's cash flow is subject to the volatility of various currencies, since the prices of its products are mostly indexed to the U.S. dollar, while significant portion of costs, expenses and investments are indexed to other currencies, mainly the Brazilian real and Canadian dollar.

Vale is also exposed to interest rates on loans and financing. The debts linked to floating interest rates in U.S. dollar consist mainly in loans including pre-payment of exports operations, and loans at commercial banks and multilateral organizations. In general, these debts are indexed to Libor (*London Interbank Offered Rate*). While considering the effects of interest rate volatility onto cash flow, Vale considers the possible effect of natural hedge between fluctuations in US interest rates and prices of commodities in the decision making process for financial investments.

On December 31, 2012, 64.6% of our debts were denominated in U.S. dollar (USD) corresponding to R\$ 39,949 million, from which R\$ 37,544 million linked to fixed interest rates and R\$ 2,405 million indexed to Libor. Another 28.7% of the debt was denominated in reais (R\$) corresponding to R\$ 17,725 million, from which R\$ 9,759 million linked to DI Rate, R\$ 6,317 million linked to TJLP, and R\$ 1,649 million linked to fixed interest rates. The remaining 6.8% of the debt were denominated in Euro (€), corresponding to R\$ 4.175 million linked to fixed

interest rate.

For more information about risks on exchange and interest rates, see item 4.1 in this Reference Form.

5.2 Description of the policy for management of market risks

Vale understands that risk management is essential to support its growth plan, strategic planning and financial flexibility. Therefore, Vale has developed its risk management strategy with the objective of providing an integrated view of risks to which it is exposed. To do this, it not only assesses the impact of variables negotiated in the financial market on business results (market risk), but also the risk from the obligations assumed by third parties to the Company (credit risk), those inherent to inappropriate and deficient internal processes, personnel, systems or external events (operational risk), and those arising out of liquidity risk and others.

Vale's Board of Directors established a policy of corporate risk management for purposes of supporting the growth plan, the strategic planning, and continuity of Company businesses, strengthening its capital structure and asset management, ensuring flexibility and solidity in financial management, as well as strengthening corporate governance practices.

The policies of corporate risk management determine that Vale should measure and monitor its corporate risk in a consolidated manner, for purposes of ensuring that the total level of corporate risk is aligned with guidelines set by the Board of Directors and the Executive Directors.

Table of Contents

The Risk Management Executive Committee, created by the Board of Directors, is responsible for supporting the Executive Directors in risk assessment and for issuing opinions related to Company risk management. It is also responsible for supervising and reviewing the principles and instruments used in corporate risk management.

The Executive Directors are responsible for approving the developments of policies in rules, regulations and responsibilities and informing the Board of Directors on such procedures.

Rules and guidelines used in risk management complement the corporate risk management policy and define Company practices, procedures, controls, roles and responsibilities related to risk management.

When needed, the company may allocate specific risk limits to management activities requiring those, including, without limitation, limits on market risk, corporate and sovereign risks, according to acceptable limits to corporate risk.

a. Risks for which protection is sought

Vale is exposed to the behavior of several market risk factors (especially the price of products and input, exchange rates and interest rates) that could impact its cash flow. Assessment of this potential impact, arising out of the volatility of risk factors and its correlations, is performed periodically to support the decision making process, the Company growth strategy, ensuring financial flexibility and monitoring volatility of future cash flows.

Thus, when needed, market risk mitigation strategies are assessed and deployed in line with such goals. Some of these strategies use financial instruments, including derivatives. Portfolios comprised of financial instruments are monthly monitored in a consolidated manner, allowing the follow-up of financial results and their impact on cash flow, as well as ensuring strategies adherence to proposed goals.

b. Asset protection strategy (hedge)

In line with Vale risk management policy, commodities-related risk mitigation strategies may also be used to adequate the risk profile and reduce the cash flow volatility. For these mitigation strategies, the company mainly uses forwards, future, or zero-cost collars operations.

In the case of cash flow exchange hedge involving income, costs, expenses and investments, the main risk mitigation strategies are currency and swap operations.

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Vale deployed hedge operations to protect its cash flow against market risk from its debts especially exchange risk. Swap operations are used to convert debts in reais and euros into US dollars that mature on similar dates or, in some cases, earlier - than debt final maturity date. Their amounts are similar to the payment of interest and principal, according to market liquidity risks.

Swap operations that mature earlier than debts final maturity are renegotiated through time in order to have matching or close - maturity dates. Therefore, on the settlement date, the swap results will compensate part of the Exchange rate variation on Vale obligations, helping to stabilize the cash flow.

In the case of debt instruments denominated in reais, if there is real (R\$) increase (decrease) before the North-American dollar (US\$), the negative (positive) impact in Vale's debt service (interest and/or principal payment), in North-American dollars, will be partially offset by the positive (negative) effect from the swap operation, regardless of the US\$/R\$ Exchange rate on the date of payment. The same reasoning is applicable to debts denominated in other currencies and their respective swap operations.

c. Instruments used for asset protection (hedge)

Protection programs and hedge programs employed by Vale, and their objectives include:

- Protection program of loans and financing in reais, indexed to CDI: In order to reduce the volatility of the cash flow, swap transactions have been made in order to convert the cash flow of debt,

Table of Contents

indexed to the CDI to U.S. dollars, in loans and financing contracts. In these operations, Vale pays fixed and / or floating rates (Libor) in U.S. dollars and receives remuneration linked to the CDI.

- Protection program of loans and financing in reais, indexed to TJLP: In order to reduce the volatility of the cash flow, swap transactions have been made in order to convert the cash flow of debt indexed to the TJLP(1) to U.S. dollars, in loans and financing contracts with BNDES. In these operations, Vale pays fixed and/or floating rates (Libor) in U.S. dollars and receives remuneration linked to the TJLP.
- Protection program of loans and financing in reais with fixed rates: In order to reduce the volatility of the cash flow, swap transactions have been made in order to convert the cash flow of debt denominated in reais at fixed rate to US dollars in loans contracts with BNDES. In these operations, Vale pays fixed rates in U.S. dollars and receives fixed rates in reais.
- Currency cash flow hedge: In order to reduce the volatility of the cash flow, swap transactions were made to mitigate the exchange rate exposure originated by the currency mismatch between revenues in U.S. dollars and costs of investments in reais. On December 31, 2012 there were no open positions for this program.
- Protection Program for loans and financing in Euros: In order to reduce the volatility of the cash flow and the cost of debt in US dollars, swap transactions were made to convert the cash flow of debts in euros for U.S. dollars. These operations were used to convert the flow of part of the debts in euros, with nominal value of up to 750 million each, issued in 2010 and 2012 by Vale. In these operations, Vale receives fixed rates in Euros and pays compensation linked to fixed floating rates in US dollars.
- Exchange hedge program for disbursements in Canadian dollars: In order to reduce the volatility of cash flow, forward operations were made to mitigate the exchange exposure arising out of the unmatched currencies in US dollars revenue and Canadian dollars disbursements.
- Protection program for interest rates: Vale carried out 10-year Treasury operations during the last quarter in 2011 in order to ensure partial protection against the cost of debt related to said rate. This program was discontinued in January 2012.
- Hedge program for the selling of nickel: The objective of this program is to reduce the volatility of cash flows, whereby Vale carried out hedge operations fixing the pricing of part of the sales in the period. On December 31, 2012, there were no outstanding positions in this program.
- Sales program for nickel at a fixed price: aiming to maintain its exposure to fluctuations in the price of nickel, it has been carried out derivative transactions to convert to a floating-price basis commercial Nickel contracts with those clients seeking to fix the price. The operations are intended to ensure that prices for these sales are equivalent to the average price of the London Metal Exchange (LME)

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upon physical delivery to the customer. Typically, operations made within this program are purchases of nickel for future liquidation, either in the Stock Market (LME) or over-the-counter. These operations are reverted before the original maturity date in order to match with the dates of liquidation of the commercial contracts that had a fixed price. When the Hedge program for selling of nickel is performed, the Sales program for nickel at a fixed price is discontinued. On December 31, 2012, there were no outstanding positions in this program.

- Protection Program for purchase transactions of nickel: Protection operations were made in order to reduce the volatility of the cash flow and eliminate the mismatching between the pricing period of the purchase of Nickel (concentrated, cathode, sinter and other types) and the reselling period of the processed product. The products purchased are raw material used in the process of production of refined nickel. In this case, operations usually made are the selling of nickel for future liquidation either in the Stock Market (LME) or over-the-counter.

- Protection program for selling of copper scrap: Hedge operations were made in order to reduce the volatility of the cash flow and eliminate the mismatching between the pricing period of the purchase of copper scrap. Copper scrap bought is combined with other inputs in order to manufacture copper for final

(1) Due to liquidity restrictions in the TJLP derivative markets, some swap operations were contracted according to CDI equivalence.

Table of Contents

customers. In this case, operations usually made are sales for future liquidation either in the Stock Market (LME) or over-the-counter.

- **Protection Program for purchase of fuel oil - Bunker Oil:** In order to reduce the impact of fluctuations in the price of fuel oil (Bunker Oil) when procuring freight, and hence reduce the volatility of Company's cash flow, hedge operations were carried out. The operations are usually made by the contracting of future purchases. On December 31, 2012, there were no outstanding positions in this program.

On December 31, 2012, the value of the principal and interest of the debts denominated in reais and translated into US dollars by swap transactions was R\$ 16,812 million (US\$ 8,227 billion) and the value of the principal and interest of the debts denominated in Euro and translated into US dollars by swap transactions was 1,000 million (US\$ 1,319 million). The average cost of these operations was 3.16% after swap transactions. Due to market liquidity conditions, the average term of swap transactions could be shorter than the debt average term.

Hedge Accounting

According to the Accounting for Derivative Financial Instruments and Hedging Activities pronouncement, all derivatives, assigned in hedge relations or not, are recorded in the balance sheet at fair value and gains and losses in fair value are recorded in the current result, unless when qualified as hedge accounting. A derivative should be assigned in hedge to be qualified as hedge accounting. These rules include determining which portions of hedge are deemed to be effective or non-effective. In general, a hedge relation is effective when a change in fair value is compensated by an equal and contrary change in the fair value of the hedged item. According to these rules, effectiveness tests are run to evaluate the effectiveness and quantify the non-effectiveness of the hedges.

On December 31, 2012, Vale held outstanding positions classified as cash flow hedge. A cash flow hedge is a protection against the exposure to volatility in the expected future cash flow, attributable to a specific risk, as a future purchase or sale. If a derivative is designated as cash flow hedge, the effective portion in the changes of derivative fair value is recorded in other comprehensive income, and recognized in the result when the hedged item affects the period result. The non-effective portion of the changes in derivative fair value designated as hedge is recorded in result. If a portion of the derivative contract is excluded for effectiveness test purposes (for instance the value in time), the value of such excluded portion is included in the result.

d. Parameters used for managing those risks

The parameters used to check the qualification or disqualification of the Company's exposure are:

- (i) verification of execution of the programs mentioned in 5.2(c) above;
- (ii) analysis and constant monitoring of the contracted volumes, and

(iii) adjustment to the adequacy of maturity dates, taking into account their corresponding protection or hedge strategies, guaranteeing the framing of our exposures. The failure to match exposure and protection strategies may occur if:

- a. the protection volumes/amounts are higher than the respective exposure volumes/amounts;
- b. the exposure that is protected ends; or
- c. the maturity dates of protection strategies and the respective exposures no longer match.

To avoid potential non-matching due to item (iii.a) above, the criterion adopted is monthly follow up of volumes/amounts to be realized used as basis to propose strategy proposals. In the case of protection of input prices, for instance, if consumption updated estimates point to a decrease in volumes compared to initial estimates used to propose protection strategies, protection strategy volumes will be adjusted accordingly.

Table of Contents

To avoid potential non-matching due to item (iii.b) above, if during monthly follow up the initial exposure fails to be realized, the protection strategy ends immediately (unwind position).

To avoid potential non-matching due to item (iii.c) above, the company constantly checks the alignment between protection strategies and the initially estimate exposure maturity.

e. If the Company uses various financial instruments with various objectives for asset protection (hedge) and what these goals are

When needed, the company may allocate specific risk limits to management activities requiring those, including, without limitation, limits on market risk, corporate and sovereign risks, according to acceptable limits to corporate risk.

f. Organizational structure for risk management control

The Executive Board for Risk Management, created by the Board of Directors, is the main body in the risk management structure, being responsible for supporting the Executive Board in risk assessment and for issuing opinions on the risk management at Vale Group. It is also responsible for monitoring and managing corporate risks, as well as supervising and reviewing the main corporate risk management principles and instruments, and periodically reporting, through the coordinator, to Vale Executive Directors on the main risks and respective exposures. For more information about the members of our Executive Board for Risk Management, see item 12.7 in this Reference Form.

The financial committee is responsible for issuing opinions on Vale corporate risk policies. The Board of Directors is responsible for approving such policies.

The Executive Board is responsible for approving policy developments into rules, regulations and responsibilities and for notifying the Board of Directors on such procedures.

Risk management guidelines and instructions complement the corporate risk management policy and define practices, processes, controls, roles and responsibilities in the Company regarding risk management.

In Vale, the area formally responsible for risk management is the Corporate Risk Management Department, directly responding to the Financial and Investor Relations Executive Directors, and includes Market and Credit Risk Management, Operational Risk Management, Internal Controls and Insurance. Depending on the type of risk, management is centralized or decentralized. Several other departments act jointly in the integrated risk management process.

The recommendation and implementation of derivative-related financial operations are carried out by independent areas. It is the responsibility of the area of risk management to define and propose to the Executive Board for Risk Management operations or measures to mitigate market risk consistent with Vale's strategy. It is the responsibility of the financial area to carry out the transactions involving derivative contracts. The independence between areas ensures effective control over these operations.

g. Adequacy of the operational structure and internal controls to verify the effectiveness of the policy adopted

In case of market risks, the monitoring and monthly assessment of Vale's consolidated position of financial instruments used to mitigate market risks allow it to keep pace with the financial results and the impact on cash flow and ensure that the goals originally outlined are met. The fair value calculation of the positions is made available monthly for management monitoring.

Several areas act as *compliance* in the process of risk management: the back-office, part of the General Board of Financial, is responsible for confirming the financial characteristics of transactions as well as the counter-parties with which the operations were performed, report the fair value of the positions. This area also assesses whether the operations were performed according to internal approval given. As well as this area, the area of internal controls, which is part of the Department of Corporate Risk Management, acts to verify the integrity of the controls that mitigate risks in the contracted transactions within the above mentioned governance criteria.

Table of Contents

In case of other risks, additionally to the risk management area, there are several other areas responsible for risk management.

Additionally, internal audit also participates in the compliance process with regulations.

5.3 Significant changes in key market risks

In 2010, the Benchmark iron ore pricing system (annual reference prices) was replaced by iron ore price index. As it promptly reflects market price variations, the company expects that adoption of price index contracts offer better volatility to the cash flow. For more information about the iron ore pricing system, see item 10.2 in this Reference Form.

5.4 Other relevant information

In line with the integrated view of risks exposure, Vale considers in risk management, additionally to market risk management, the risk from the obligations assumed by third parties to the Company (credit risk), those inherent to inappropriate and deficient internal processes, personnel, systems or external events (operational risk), and those arising out of liquidity risk and others.

Credit Risk

Vale's credit risk arises from potential negative impacts in its cash flow due to uncertainty in the ability of having counterparts meet their contractual obligations. To manage that risk, Vale has procedures and processes, such as credit limits control, obligatory exposure diversification through several counterparts and monitoring the portfolio's credit risk.

Vale's counterparts may be divided into three categories: clients, responsible for obligations represented by receivables related to sales in installments; financial institutions with whom Vale maintains its cash investments or acquires transactions with derivatives; and suppliers of equipment, products and services, in case of anticipated payments.

Regarding credit risk, the company adopts the following management standards:

Credit Risk Assessment for commercial operations (sales to customers)

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For the commercial credit risk, which arises from sales of products and services to final customers, the Risk Management Department, according to current powers, approves or requests the approval of credit risk limits for each counterpart. Besides that, the Executive Board annually sets global commercial credit risk limits for the portfolio and clients. The approved global and working capital limits, embedded into this limit, are monitored on a monthly basis.

Vale attributes a credit risk classification for each client based on a credit risk assessment quantitative method, using three main information sources: i) the expected default frequency (*Expected Default Frequency* or EDF) found by the KMV model (Moody's); ii) credit ratings attributed by the main international rating agencies; and iii) client's financial statements to make an economic-financial analysis based on financial indicators.

Whenever deemed appropriate, the quantitative credit analysis is complemented by a qualitative analysis which takes into consideration the payment history of that counterpart, the time of relationship with Vale and the strategic position of the counterpart in its economic sector, and other factors.

Depending on the counterpart's credit risk or the consolidated credit risk profile of Vale, risk mitigation strategies are used to minimize the Company credit risk in order to achieve the acceptable risk limit approved by the Executive Board. The main credit risk mitigation strategies include credit insurance, mortgage, credit letter and corporate collaterals.

Vale has a well-diversified accounts receivable portfolio from a geographical standpoint, China, Europe, Brazil and Japan being the regions with more significant exposures. According to each region, different guarantees can be used to enhance the credit quality of the receivables.

Table of Contents

The Company controls its account receivables portfolio through Credit and Cash Collection committees, in which representatives from risk management, cash collection and commercial departments periodically monitor each counterpart position. Additionally, Vale maintains credit risk systemic controls that block additional sales to counterparts with past due receivables.

Credit Risk Assessment for treasury operations (cash flow investments and financial hedges)

The control of the exposure from cash investments and derivatives instruments is done through the following procedures: annual approval by the Executive Board on credit limits by counterpart, control of portfolio diversification, counterparts' spread variations and overall credit risk of treasury portfolio. There is also a monitoring of all positions, control of exposure versus limits, and periodical reporting to the Executive Board for Risk Management.

The calculation of exposure to a specific counterpart that has derivative transactions with Vale, we consider the sum of exposures of each derivative acquired with this counterpart. The exposure for each derivative is defined as the future value calculated by the due date, considering a joint variation of market risk factors affecting the value of the derivative instrument.

Vale also uses a risk assessment classification to evaluate the counterparts in treasury operations, following a method similar to that used for commercial credit risk management, for purposes of calculating the possibility of counterpart default.

According to the type of counterpart (banks, insurance companies, countries or corporations), different variables are used: i) the expected default frequency from the KMV model; ii) credit spreads found in CDS (*Credit Default Swaps*) or in the Bond Market; iii) credit ratings attributed by the main international rating agencies; and iii) client's financial statements to make an economic-financial analysis based on financial indicators.

Liquidity Risk

The liquidity risk arises from the possibility that Vale might not perform its obligations on due dates, as well as face difficulties to meet its cash flow requirements due to market liquidity constraints.

To mitigate such risk, Vale has a revolving credit facility to help manage short term liquidity and to enable more efficiency in cash management, being consistent with the strategic focus on cost of capital reduction. The revolving credit facility available today was acquired from a syndicate of several global commercial banks

Operational Risk

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Operational risk management is the structured approach Vale uses to manage the uncertainties related to the eventual deficiency or default in internal processes, personnel, systems, and external events.

Thus, operational risk mitigation is performed by creating new controls and improving existing ones, preparation of new mitigation plans, as well as risk transfer through insurance, when applicable. Therefore, the Company seeks to have a clear view of its major risks, the best cost-benefit mitigation plans and controls in place, monitoring potential impact of operational risks and allocating capital efficiently.

Capital Management

The purpose of the Company capital management policy is to seek a structure that ensures continuity of its business, in the long term. In this view, the Company has been able to generate value to shareholders, through the payment of dividends and capital gains, while maintaining a debt profile appropriate to its activities, with well-distributed amortization along the years (on average 10 years), thus avoiding concentration in a specific period.

Insurance

Vale acquires several types of insurance policies, including: operational risk insurance, engineering (project) insurance, liability, life insurance for employees, etc. The coverage of these policies, similar to those used in general in the mining industry, are acquired according to company's defined goals, the

Table of Contents

corporate risk management practices and limitations imposed by the global insurance and reinsurance markets.

Insurance management is done with the support of insurance committees existing in different operational areas of the Company. Management instruments used by Vale include captive reinsurers that allow acquiring insurances on competitive basis, as well as direct access to the main insurance and reinsurance international markets.

Table of Contents

6.1/6.2/6.4 Establishment of the Company. Company Lifetime and Date of Filing with CVM

Date of Establishment of Issuer	01.11.1943
Legal Form of the Issuer	Mixed economy Company
Country of Establishment	Brazil
Company Lifetime	Company lifetime Undetermined
Date of Filing with CVM	01.02.1970

6.3 Brief History

Vale was initially founded by the Brazilian Federal Government (Government of Brazil) on 06.01.1942, through Decree-Law No. 4352, and definitively on 01.11.1943, by the Assembly for the Definitive Constitution of the Companhia Vale do Rio Doce S.A., in the form of mixed economy company, aiming to mine, trade, transport and export iron ore from the Itabira mines, and run the Vitória-Minas Railroad (EFVM), which carried iron ore and agricultural products from Vale do Rio Doce, in south-eastern Brazil, to the port of Victoria, located in Espírito Santo.

The privatization process was initiated by the Company in 1997. Under Privatization Decree PND-A-01/97/VALE and the Resolution of the National Privatization Council - CND paragraph 2, of 03.05.1997, the Extraordinary General Assembly approved on 04.18.1997 the issue of 388,559,056 participatory non-convertible debentures, with a view to guaranteeing its pre-privatization shareholders, including the Federal Government itself, the right to participation in revenues from Vale's and its subsidiaries' mineral deposits, which were not valued for purposes of fixing the minimum price in the auction for the privatization of Vale. The Participatory Debentures were allocated to the shareholders of Vale in payment of the redemption value of preferred class B shares issued as bonus, in the proportion of one share owned by holders of class A common and preferred shares at the time, through the part capitalization of Vale's revenue reserves. The Participatory Debentures could only be traded with prior authorization of CVM, as of three months from the end of Secondary Public Offering of Shares under the privatization process.

On 05.06.1997 the privatization auction was held, when the Brazilian government sold 104,318,070 Vale common shares, equivalent to 41.73% of the voting capital for Valepar SA (Valepar), for approximately R\$ 3.3 billion.

Later, under the terms of the Bid, the Brazilian government sold another 11,120,919 shares representing approximately 4.5% of the outstanding common shares and 8,744,308 class A preferred shares, representing 6.3% of class A shares in circulation, through a limited offer to the employees of Vale.

On 03.20.2002 a Secondary Public Offering of Shares issued by Vale was held, in which the Brazilian Government and the National Bank for Economic and Social Development (BNDES) each sold 34,255,582 Vale common shares. The demand by investors in Brazil and abroad was substantial, exceeding supply by about three times, which led to the sale of the entire batch of 68,511,164 shares. A portion of about 50.2% was posted in the Brazilian market and the remainder was sold to foreign investors. Later, on 10.04.2002, the proper certification of the Participatory Debentures was obtained from CVM, the Securities Commission, allowing their trading on the secondary market.

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The following describes the most significant historical events in the history of the Company since its incorporation:

1942

- President Getulio Vargas, by Decree-Law n° 4352 of 06.01.1942, sets out the basis on which Companhia Vale do Rio Doce SA would be organized. By Decree-Law, the Brazilian Company for Mining and Metallurgy and Mining Company Itabira would be expropriated.

1943

- Vale is constituted on 1.11.1943, as mixed economy Company, pursuant to Decree-Law n ° 4.352/42.
- Listing of Vale shares on the Rio de Janeiro Stock Market (BVRJ) in October 1943.

Table of Contents

1944

- First business with Vale shares on the BVRJ occurred in March 1944.

1952

- The Brazilian Government takes definitive control of Vale's operational system.

1953

- First shipment of iron ore to Japan.

1954

- It revises its business practices abroad, and proceeds to directly contact steel mills, without the intermediation of traders.

1962

- Signed long-term contracts with Japanese and German steel mills.

1964

- Opening of Vale's first office outside of Brazil in Dusseldorf, Germany.

1966

- Opening of the Port of Tubarão, in Vitória, in Espírito Santo. This is connected to the iron ore mines by the Vitoria to Minas Railroad.

1967

- Geologists of the Southern Mining Co., a subsidiary of United States Steel Corp. (U.S. Steel), record the occurrence of iron ore in Carajás, Pará State.

1968

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- Vale shares become part of the IBOVESPA index.

1969

- Inauguration of Vale's first Pellet Plant in Tubarão, in Espírito Santo, with capacity for 2 million tons/year.

1970

- Agreement makes Vale the majority shareholder of the Carajas venture in Para State, along with U.S. Steel.

1972

- Vale signs agreement with Alcan Aluminum Ltd. of Canada for a project to mine bauxite in Rio Trombetas, where Mineração Rio do Norte (MRN) was set up.

1974

- Vale becomes the largest exporter of iron ore in the world, with 16% of seaborne iron ore market.

1975

- For the first time, Vale issues bonds in the international market, worth 70 million marks, with the intermediation of Dresdner Bank.

1976

- Decree No. 77.608/76 grants Vale the concession to construct, use and operate the railroad between Carajás and São Luís, in Pará and Maranhão states, respectively.

1977

- Vale announces priority for the Carajas Project, in order, from 1982, to start the export of iron ore through the Port of Itaqui (MA).

1979

- Beginning of the effective implementation of the Carajás Iron Ore Project, adopted as the main goal of Vale's business strategy.

Table of Contents

1980

- Federal Government approves the Carajas Iron Project and gives financial backing.

1982

- With the start of Valesul Alumínio SA operations in Rio de Janeiro, Vale joins the aluminum sector and helps to reduce imports of the metal into Brazil.

1984

- Inauguration of Vale office in Japan.

1985

- On February 28, the Carajás railroad (EFC) is inaugurated and handed over to Vale.
- Inauguration of the Carajás Iron Ore Project, which increases the productive capacity of the company, now organized in two separate logistic systems (North and South).

1986

- Start of operation of the Port Terminal of Ponta da Madeira, in São Luís in the state of Maranhão.

1987

- The EFC begins operating on a commercial scale.

1989

- Implementation of the Profit Sharing Program for Vale employees.

1994

- In March, Vale launches its program for American Depositary Receipts (ADR) Level 1, negotiable on the OTC market of the United States.

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1995

- Vale is included in the National Privatization Program by Decree No. 1510 of June 1, signed by the President.

1996

- On October 10, the National Privatization Council (CND) approves the model for privatization of Vale.

1997

- BNDES releases on March 6, the terms of the bidding for the privatization of VALE.
- On April 18, Vale issues 388,559,056 Participatory Debentures that can only be traded with prior authorization of the CVM, as of three months from the end of Secondary Public Offering of Shares under the terms of the privatization process.
- On May 6, Vale is privatized in an auction held at the Stock Exchange of Rio de Janeiro. Valecom consortium, put together by the Votorantim Group, and the Brazil Consortium, led by Companhia Siderurgica Nacional (CSN) took part in the auction. The Brazil Consortium buys 41.73% of common shares of VALE for US\$ 3,338 million at present-day values.

1998

- In the first year after privatization, Vale reaches 46% growth in profit over 1997.

1999

- It has the largest profit in its history so far: US\$ 1.251 billion.

2000

- On February 2, Vale opened the Container Terminal of the Port of Sepetiba.
- In May, Vale acquires Mineração Socoimex S.A. and S.A. Mineração da Trindade (Samitri), companies producing iron ore, initiating the consolidation of the market for Brazilian iron ore.
- On June 20, Vale announced the listing of its American Depositary Receipts (ADRs), representing preferred shares of the Company on the New York Stock Exchange (NYSE) in a DR Level II program approved by the CVM.
- On August 31, the Extraordinary General Meeting approves the merger of a wholly owned subsidiary Mineração Socoimex S.A, without issuing new shares, aiming to add to the assets of the Company the Gongo Soco mine, with reserves of high grade hematite in the iron quadrangle in Minas Gerais.

2001

- In February, the Board of Directors of Vale authorizes the start of the process of divesting its holdings in the sector of pulp and paper.

Table of Contents

- On February 19, the shares of S.A. Mineração da Trindade (Samitri) are incorporated by Vale, with no increase of capital and without issuing new shares, by using shares held in treasury, as authorized by the CVM.
- In March, shareholdings involving Vale and CSN are unwound.
- In April, Vale acquires 100% shareholding in Ferteco Mining SA, the third largest producer of iron ore in Brazil at the time.
- In October 2001, the General Assembly of Shareholders approves the incorporation of wholly owned subsidiary Samitri, without issuing new shares and with no capital increase in Vale, in line with guidelines for administrative and financial streamlining.

2002

- In March, the pellet plant in Sao Luis, in Maranhão state, is officially opened.
- On March 21, the comprehensive sale offer of 68,511,164 Vale common shares owned by the Brazilian Government and BNDES is concluded, of which approximately 50.2% was placed in the Brazilian market and the remainder sold to outside investors. The selling price in Brazil was R\$ 57.28 per share and abroad US\$ 24.50 per ADR.
- Vale common shares start to be traded on the NYSE in the form of ADRs, in program level III.
- The Company's common shares also start to be traded on the Madrid Stock Exchange - Latibex.
- The foundation stone of the Sossego Copper Project, State of Pará, is laid.
- On October 4, VALE obtains from the CVM the registration of Publicly Traded Participatory Debentures.
- On December 16, the General Assembly of Shareholders approves Vale's Dividend Policy in order to increase both transparency and financial flexibility, taking into account the expected path of the Company's cash flow.
- On December 27, the Extraordinary General Meeting approves the Amendment to the Bylaws in order to (i) expand the Company's activities in energy and logistics, (ii) adjust the Statutes to the new rules introduced by Law No. 10303 of 10.31.2001 and (iii) introduce the principles of best corporate governance practices.

2003

- On February 14, Vale completes the acquisition of 100% stake in Elkem Rana AS (Rana), a Norwegian producer of ferroalloys, for the price of US\$ 17.6 million.
- On March 31, Vale acquires 50% stake in Caemi Mineracao e Metalurgia S.A. (Caemi) for US\$ 426.4 million.
- On August 29, Vale incorporates the wholly owned subsidiaries Celmar S.A. - Indústria de Celulose e Papel S.A. and Ferteco Mineração S.A.
- On November 7, Vale completes the restructuring of shareholdings in logistics companies, which was aimed at the elimination of the relationship between Vale and CSN in the shareholding structure of the Ferrovia Centro-Atlantica SA (FCA), Companhia Ferroviária do Nordeste (CFN) and CSN Aceros S.A. (CSN Aceros).
- On December 12, Vale adheres to Level 1 of the Program for Differentiated Corporate Governance Practices established by the BM&F Bovespa Exchange.

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- Continuing the process of simplifying its operating structure, on December 30, Vale incorporates the following wholly owned subsidiaries: Rio Doce Geologia e Mineração S.A. Docegeo (Docegeo), Mineração Serra do Sossego S.A. (MSS), Vale do Rio Doce Alumínio S.A. Aluvale (Aluvale) and Mineração Vera Cruz S.A. (MVC).

2004

- On July 02, the Sossego mine, the first copper mine in Brazil, opens in the State of Pará. This project was completed in record time.
- In November, Vale wins an international bidding for coal mining in the Moatize region of northern Mozambique.
- In December, Vale signs a memorandum of understanding with ThyssenKrupp Stahl AG (ThyssenKrupp) for the construction of an integrated steel slab plant with a capacity of 5 million tons in the State of Rio de Janeiro.

2005

- Vale is the first Brazilian company to achieve a risk score greater than the host country and the only one to have this recognition for three different rating agencies: reaching, thus, Investment Grade, given by Moody's, and confirmed by Standard & Poor's and Dominion Bond.
- In July, Vale signs an agreement with two Australian mining companies to carry out studies to exploit the Belvedere Underground Coal Project, located in the State of Queensland, Australia.
- On September 22, it launches *Vale Investir*, a program that allows investors to automatically reinvest Brazilian funds from shareholders payments - dividends and/or interest on capital - to buy shares of the Company.

Table of Contents

- In November, Vale agrees to acquire a minority stake in Ceara Steel, a steel slab project aimed at exporting from the state of Ceará, with a nominal capacity of 1.5 million tons of slabs per year.
- The Company consolidates its entry into the copper concentrate industry, with the first full year of operation of the Sossego Mine and sales to 13 customers in 11 different countries.
- In the last quarter of 2005, Vale acquires 99.2% of Canico Resources Corp. (Canico), which owns the lateritic nickel project Onça Puma, located in Para State, for approximately US\$ 800 million.

2006

- In January, Vale acquires mineral resources, land and mining equipment from the Rio Verde Mineração (Rio Verde) for US\$ 47 million.
- In February, the acquisition of all shares of Canico is completed, these being removed from trading on the Toronto Stock Exchange.
- In March, it inaugurated the expansion of production capacity is inaugurated of alumina refinery Alunorte
- Alumina do Norte do Brazil S.A. (Alunorte), located in Barcarena in the State of Pará.
- On May 3, Vale completes incorporation of shares of Caemi, now holding 100% of the shares.
- On July 3, Vale buys 45.5% stake in Valesul Alumínio S.A. and now owns 100% of the shares.
- On August 11, the Company announces that it intends to offer to acquire all common shares of Inco Limited (Toronto Stock Exchange - TSX and New York Stock Exchange - NYSE under the symbol N) (Inco). The offer is consistent with long-term corporate strategy and strategy for the non-ferrous metals business of Vale.
- In the third quarter, Vale divides the administration of former Southern System for production and distribution of iron ore into two departments: the South-eastern System and the Southern System, and began to report production separately for each system.
- In September, Mineracoes BR Holdings GmbH buys 25% stake in a joint venture, Zhuhai YPM, to build a new pellet plant in Zhuhai, in the region of Guandong, China.
- On October 5, Vale opens the Brucutu Project, the largest mine/plant complex in the world for initial production capacity of iron ore, located in São Gonçalo do Rio Abaixo in Minas Gerais.
- On October 26, Vale concludes the financial settlement of a major part of the acquisition of Canadian miner Inco Ltd., the second largest nickel producer in the world, effecting payment of US\$ 13.3 billion for the purchase of 174,623,019 shares issued by Inco. On November 6, Vale joins the control group of Usiminas steel company in Minas Gerais - (Usiminas).

2007

- In January, Vale completed the expansion of iron ore production capacity in Carajás, which now reaches 100 million tons per year.
- On January 30, the acquisition of Inco (now Vale Canada Limited) is ratified at Vale Extraordinary General Meeting. The nickel business is now managed from Toronto as well as activities related to marketing and sales of metals. With the completion of its acquisition of Inco, Vale becomes the second largest mining and metals company in the world by market value.

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- On February 16, Vale announces secondary public offering of shares of Log-In Logistica Intermodal SA (Log In).
- On February 26, Vale signs a sale and purchase agreement to acquire the Australian AMCI Holdings Australia Pty Ltd. (AMCI), which operates and controls coal assets through holdings in joint ventures.
- In March, Vale acquires an 18% stake in Ferro-Gusa Carajás S.A. (FGC), which belonged to Nucor do Brasil S.A for 20 million dollars, and now holds a 100% stake in FGC.
- In May, Vale signs a usufruct contract, and now controls the entire capital of the MBR, for the following 30 years.
- On May 2, Vale signs a freight contract for 25 years with Bergesen Worldwide (B.W. Bulk), which provides for the construction of the four largest bulk carriers in the world, each with a capacity of 388 thousand tons.
- On June 28, the Government of Mozambique approved the mining contract for the operation, by Vale, of the Moatize coal project in the province of Tete in the northwest of the country.
- On August 30, shareholders meeting at an Extraordinary General Meeting, ratify the acquisition of control of AMCI by the Company.
- On November 29, Vale begins to use the brand Vale in all countries where it operates and at the same time takes on a new global identity.
- On December 21, Vale signs an agreement for commercial exploitation for 30 years of 720 km of the Norte-Sul Railroad (FNS).

Table of Contents

2008

- In the first half of 2008, Vale launches operations to increase capacity in the production of pellets in Samarco, a (50% -50%) joint venture with BHP Billiton in the Brazilian State of Espírito Santo.
- Vale leases three pellet plants in the Tubarão complex, in Vitória, State of Espírito Santo, owned by the JVs in which it participates (Itabasco, Kobrasco and Nibrasco).
- On May 5, Vale signs a sale and purchase agreement to acquire the mining and surface rights in the municipalities of Rio Acima and Caeté, State of Minas Gerais.
- In July, Vale makes a global offering of 256,926,766 ordinary shares and 189,063,218 preferred shares, including ADSs, in order to promote investment and strategic acquisitions as well as maximizing the financial flexibility of the Company. The aggregate value of Vale's global offer, after underwriting discounts and commissions, including the values of the exercise of further stock options, was US\$ 12.2 billion. In August, exercising the option of complementary lot, Vale issues 24,660,419 class A preferred shares.
- In connection with the offer above, Vale lists and trades its common and preferred ADSs on Euronext Paris.
- On August 3, Vale orders the building of 12 large ships for carrying iron ore, buys used vessels and signs long term freight contracts. The total investment was US\$ 1.6 billion for the construction of new ships and US\$ 74 million for the purchase of used ships.
- On August 14, Vale announces its intention to invest in building a new steel plant in Marabá in Para State, with an annual production capacity of 2.5 million metric tons of semi-finished steel.
- On October 31, Vale announces a reduction in its rate of production of iron ore, pellets, nickel, manganese, ferro-alloys, aluminum and kaolin, in the face of the impact of global economic crisis on the demand for minerals and metals.
- On December 16, Vale signs with African Rainbow Minerals Limited (ARM) and its subsidiary TEAL Exploration & Mining Incorporated (TEAL) a contract providing for the acquisition of 50% of the capital of a joint venture to hold TEAL subsidiaries for CAD \$ 81 million, therefore increasing the strategic options for Vale to grow in the copper business in Africa.
- On December 23, Vale signs a sale and purchase agreement to acquire 100% of the coal exporting assets of Cementos Argos SA (Argos) in Colombia for US\$ 306 million.

2009

- On January 30, Vale signs with Rio Tinto plc (Rio Tinto) a sale and purchase agreement for the acquisition, through cash payment, of iron ore and potash assets, located in Brazil, Argentina and Canada.
- On March 24, Vale completes the previously announced transaction, and creates a 50%-50% joint venture with ARM for future development and operation of the assets of TEAL, expanding in December 2008 the strategic options for growth in the copper business in Africa.
- On March 27, Vale initiates the construction of the Moatize project, in Tete province, Mozambique. The project involves investments of US\$ 1.3 billion and has a nominal production capacity of 11 million metric tons (Mt) of coal, comprising 8.5 Mt of metallurgical coal and 2.5 Mt of thermal coal.
- On April 1, the Company concluded the acquisition of the assets of export thermal coal with Argos in Colombia.
- On April 16, Vale completes the sale of all of its 14,869,368 common shares issued by Usiminas and linked to the steel mill's existing shareholders agreement.

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- On May 21, the Board of Directors of Vale approve the revised 2009 investment budget for US\$ 9.035 billion as compared with the US\$ 14.235 billion announced on October 16, 2008.
- On May 22, the Extraordinary General Meeting of Vale approves the proposal to change its name from Companhia Vale do Rio Doce SA to Vale SA.

Table of Contents

- On June 23, Vale launches a project to produce biodiesel to fuel its operations and projects in northern Brazil, to begin in 2014, using palm oil (dende oil) as feedstock, which will be produced by a consortium between Vale and Biopalma Amazonia SA (Biopalma).
- On July 13, the Company announces that its unionized employees in Sudbury and Port Colborne in Ontario, Canada, are on strike. The same happens on the 1st of August, with the unionized employees of its operation in Voisey's Bay in the province of Newfoundland and Labrador, Canada.
- On July 22, Vale signs a memorandum of understanding (MOU) with ThyssenKrupp to raise its stake in ThyssenKrupp CSA Siderurgica do Atlantico Ltda. (TKCSA) from 10% to 26.87% through a capital injection of EUR \$ 965 million.
- On September 18, Vale completes the acquisition of the operations of iron ore in Corumbá, located in Mato Grosso do Sul, owned by Rio Tinto PLC (Rio Tinto) and other controlled entities.
- On October 19, the Board of Directors of Vale approves the investment budget for 2010, including expenditures of US\$ 12.9 billion dedicated to sustaining existing operations and promoting growth through research and development (R & D) and project execution.

2010

- On January 22, integrated subsidiary Valesul Alumínio S.A. (Valesul) enters into an agreement to sell its aluminum assets located in Rio de Janeiro to Alumínio Nordeste S.A., a Metalis group company, for US\$ 31.2 million.
- On the same date, Vale approves at a Special Shareholders Meeting the incorporation of integrated subsidiaries Sociedade de Mineração Estrela de Apolo S.A. (Estrela de Apolo) and Mineração Vale Corumbá S.A. (Vale Corumbá).
- During the first half of the year, Vale closes agreements with its customers in the iron ore business to shift from annual contracts to contracts with values adjusted on a quarterly basis. The new contracts offer more efficiency and transparency for iron ore prices and make it possible to differentiate qualities, which help stimulate long-term investment. Besides, customers can learn in advance the price to be paid in the following quarter.
- In the second quarter, Vale acquires a 51% interest in VBG - Vale BSGR Limited (formerly BSG Resources (Guinea) Limited), which holds iron ore concession rights in Simandou South (Zogota) and iron ore exploration permits in Simandou North (Blocks 1 & 2), Guinea.
- Through a series of transactions in 2010, Vale acquires the phosphate operations of Vale Fertilizantes S.A. (Vale Fertilizantes, formerly Fertilizantes Fosfatados S.A. Fosfertil) and Vale Fosfatados S.A. (formerly Bunge Participações and Investimentos S.A.). The total cost of these acquisitions was US\$ 5.829 billion. The sellers included Bunge Ltd., the Mosaic Company (Mosaic), Yara Brasil Fertilizantes S.A. and other Brazilian companies.
- In May, Vale enters into an agreement with Oman Oil Company S.A.O.C. (OOC), an integrated subsidiary of the government of the sultanate of Oman, for the sale of a 30% interest in Vale Oman Pelletizing Company LLC (VOPC), for US\$ 125 million.
- In July, Vale sells to Imerys S.A. 86.2% of its interest in Pará Pigmentos S.A. (PPSA), a kaolin producer, along with other kaolin mining rights, for US\$ 74 million.
- In July, Vale concludes the transaction announced on March 31, 2010, by virtue of which it sells 35% of the total capital of MVM Resources International B.V. (MVM) to Mosaic for US\$ 385 million, and 25% of the total capital of MVM to Mitsui, for US\$ 275 million. MVM manages and operates Bayóvar phosphate rock project in Peru.
- In the fourth quarter, Vale lists Depositary Receipts representing its common and preferred Class A shares (HDRs) on Hong Kong Limited Stock Exchange (HKEX). The HDRs start to be traded on December 8, 2010.

2011

- On February 28, Vale announces the completion of the operation announced on 05.02.2010 with Norsk Hydro ASA (Hydro) to transfer all its interests in Albras - Alumínio Brasileiro S.A. (Albras), Alunorte - Alumina do Norte do Brasil S.A. (Alunorte) and Companhia de Alumina do Pará (CAP), receiving in return 22% of the outstanding common shares of Hydro and US\$ 503 million in cash. Additionally, Vale sold 60%

Table of Contents

of Mineração Paragominas S.A. (Paragominas) to Hydro for US\$ 578 million in cash. The remaining 40% will be sold in 3 and 5 years.

- In February 2011, Vale pays US\$ 173.5 million to acquire the control of Biopalma, in the State of Pará, to produce palm oil (dende oil) as feedstock to manufacture biodiesel.
- On April 28, the Board of Directors approves the acquisition, subject to certain conditions, of up to 9% of the capital of Norte Energia S.A. (NESA), a stake previously held by Gaia Energia e Participações S.A (Gaia). NESA is a company whose sole purpose is the implementation, operation and management of Belo Monte hydroelectric power plant in Pará. In June 2011, Vale concluded the acquisition of 9% of the equity of NESA, for R\$ 3.8 million.
- In June 2011, Vale acquired additional 16% equity of Sociedade de Desenvolvimento do Corredor Nacala S.A. (SDCN) for US\$ 8 million, equivalent to R\$ 12.8 million. The acquisition is aligned with the Company strategy to develop the logistic corridor of Nacala, and continued with the acquisition of 51% of SDCN in September 2010. SDCN has a concession to create the required logistic structure for the flow resulting from coal production expansion in Moatize.
- In July 2011, Vale signed an agreement to create a joint venture with Vale Fertilizantes for purposes of exploring the concession of Terminal Portuário da Ultrafértil (TUF), in the city of Santos, State of São Paulo, with imported cargos of sulfur, ammonia and fertilizers in general, being strategically linked to Vale's railroads, upon payment of R\$150 million to Vale Fertilizantes and capital investment in the joint venture of R\$432 million to fund TUF investment project.
- In December 2011, Vale concluded, by its wholly-owned subsidiary Mineração Naque S.A. a public offer auction (IPO) to acquire outstanding shares issued by Vale Fertilizantes. As a result of the IPO, Vale acquired 211,014 common shares and 82,919,456 preferred shares issued by Vale Fert, representing 82.8% of outstanding common shares and 94.0% outstanding preferred shares of Vale Fertilizantes. Common and preferred shares were acquired by the par value of R\$25.00, in a total amount of R\$2.1 billion.

2012

- On February 9, the Board of Directors approved the execution of a lease agreement of potassium mining rights and assets with Petróleo Brasileiro S.A. - Petrobras, for 30 years, which allows continuing with potassium extraction in Taquari-Vassouras and development of the Carnalita Project in the State of Sergipe.
- In April, Vale sold its 61.5% interest in Cadam S.A. concluding the divestment operation by selling the kaolin business beginning in 2010 with the sale of the interest in Pará Pigmentos S.A.
- In June, Vale concluded the sale of its thermal coal operations in Colombia to CPC S.A.S., an affiliated company of Colombian Natural Resources S.A.S. (CNR), for US\$ 407 million in cash.
- In May 2012, Vale entered into an operational lease with its affiliate Hispanobras, where Vale leases its pelleting plants owned by Hispanobras for three years, subject to automatic renewal. The operation was concluded in July 2012.
- On June 27, Vale was granted the prior license (LP) for the iron ore project Carajás S11D, the largest project in the history of Vale, and the largest project in the history of iron ore, with nominal capacity of 90 million annual metric tons (Mtpa) of iron ore. The LP is part of the first phase of licensing of this enterprise and certifies its environmental feasibility.
- In August, Vale has informed that it signed a sale agreement for US\$ 600 million and subsequent long term freight agreement for 10 large ore carriers with Polaris Shipping Co. Ltd. (Polaris).
- In October, Vale completed the sale of its manganese and ferroalloy operations in Europe to subsidiaries of Glencore International Plc. (Glencore), for US\$ 160 million in cash. Vale also retained Glencore as its marketing agent outside Brazil for metallurgic manganese ore for a five-year period.

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- On October 4, 2012, the first copper concentrate was produced, upon conclusion of the commissioning of the copper mine processing plant in Lubambe, in the Konkola North project, that includes an underground mine, plant, and related infrastructure, located in the copper belt in Zambia, with estimate nominal capacity of 45,000 metric tons per year of copper concentrate. This operation is part of a joint venture with African Rainbow Minerals Limited, holding 80% of the operation, and the remaining 20% is held by Zambia Consolidated Copper Mines Ltd.
- On December 20, 2012, Vale concluded the annual evaluation of Onça Puma and aluminum assets, implying recognition of the impairment before tax of US\$4.2 billion, with accounting impact on 2012 4Q.

Table of Contents

6.5 - Description of main corporate events undergone by the Company, its subsidiaries and related companies

2010

Incorporation of the Sociedade de Mineração Estrela de Apolo S.A. (Estrela de Apolo) and Mineração Vale Corumbá S.A. (Vale Corumbá)

On January 22, 2010 Vale approved the incorporation of its wholly owned subsidiaries Estrela de Apolo and Vale Corumbá, without issuing new shares and with no change in Vale capital, at their respective book asset value, with the release of their assets to Vale. According to the Appraisal Reports, produced by Domingues e Pinho Accountants on 31.10.2009, the asset value of *Estrela de Apolo* was R\$ 4,160.00 and the net worth of Vale Corumbá was R\$ 354,766,285.89. The main objective of the incorporations was to simplify corporate structure and optimize resources and costs.

Sale of assets of Valesul

On January 22, 2010, integrated subsidiary Valesul Alumínio S.A. (Valesul) entered into an agreement to sell its aluminum assets, located in Rio de Janeiro, to Alumínio Nordeste S.A., a member company of Metalis group, for US\$ 31.2 million (equivalent to R\$ 55,9 million on the date of receipt), received in a one-time payment. The operation was concluded on June 18, 2010.

The assets of Valesul included in the agreement are: (i) anode factory, (ii) reduction, (iii) foundry, (iv) industrial and administrative service area, and (v) inventories.

The operation was approved by CADE (Economic Defense Administrative Council) on 02/09/2011.

Acquisition of iron ore deposits (Simandou)

On April 30, 2010, Vale acquired from BSG Resources Ltd. (BSGR) a 51% stake in BSG Resources (Guinea) Ltd. (currently named VBG - Vale BSGR Limited), which holds concessions for iron ore in Guinea, Simandou South (Zogota) and exploration permits for Simandou North (Blocks 1 & 2), in the Republic of Guinea. Vale will pay US\$ 2.5 billion for the acquisition of these assets, of which \$ 500 million (equivalent to R\$ 865 million on the date of transaction) has already been paid in cash, and the remaining US\$ 2 billion will be paid in tranches subject to the achievement of specific milestones.

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The joint venture between Vale and BSGR started the implementation of the Zogota project and is conducting feasibility studies for Blocks 1 & 2, with the creation of a logistics corridor for the flow of materials through Liberia. For the right to move goods through Liberia, the joint venture is committed to renew 660 km of the Trans-Guinea railway for passenger and light cargo. Vale is now responsible for asset management, marketing and sales of the joint venture with the exclusive off-take of the iron ore produced. Vale is a party in VBG shareholders agreement, entered with BSGR.

Acquisition of fertilizer assets

On May 27, 2010, Vale completed the acquisition through its subsidiary Mineração Naque S.A., of a direct and indirect stake of 58.6% in the capital of Vale Fertilizantes – a company listed on the BM&F Bovespa exchange and the largest Brazilian producer of fertilizer nutrients - and the Brazilian fertilizer assets of Bunge Participacoes e Investimentos SA (BPI) for a total of US\$ 4.7 billion, in a one-time payment. Of this amount, US\$ 3.0 billion (equivalent to R\$ 5.5 billion at the time of payment) relates to a direct and indirect stake of 58.6% in the capital of Fosfertil, which represents 72.6% of common shares and 51.4% of the preferred shares of Bunge Fertilizantes S.A., Bunge Brasil Holdings B.V., Yara Brasil Fertilizantes S.A. (Yara), Fertilizantes Heringer S.A. (Heringer) and Fertilizantes do Paraná Ltda. (Fertipar) - equivalent to a price per share of US\$ 12.0185. The remaining US\$ 1.7 billion (equivalent to R\$ 3.1 billion at the time of payment) is attributable to the acquisition of the Brazilian fertilizer asset portfolio of BPI – Bunge Participações e Investimentos S.A. (BPI), which includes mining of phosphate rock and phosphate production units but does not include distribution/retail operations.

Additionally, on September 29, 2010 Vale completed the acquisition, for approximately US\$ 1,0 billion (equivalent to R\$ 1.76 billion on the date of transaction) in a one-time payment, of 20.27% of the capital of Vale Fertilizantes held by The Mosaic Company (Mosaic), corresponding to 27.27% of the common shares and 16.65% of the preferred shares of the company. Vale thus proceeded to hold 78.90% of the

Table of Contents

capital of Vale Fertilizantes, composed by 99.81% of the common shares and 68.24% of the preferred shares of the company.

Besides, under Brazilian corporate law and the norms of the capital market, Vale issued a mandatory tender offer (public offer for acquisition or OPA, according to the initials in Portuguese) to acquire up to the entirety of the common shares issued by Vale Fertilizantes outstanding in the market at a value of US\$ 12.0185 per share, converted into Brazilian reais, the same price paid to other shareholders of Vale Fertilizantes. As a result of the OPA, in December 2010 Vale increased its direct and indirect interest in Vale Fertilizantes to 99.83% of the total common shares and 78.92% of the total capital.

The operation was approved by the Brazilian regulating authority on Feb 23, 2011.

Disposal of minority interests in Bayóvar

On July 7, 2010, Vale completed the transaction announced on 3.31.2010, by virtue of which it sold to The Mosaic Company (Mosaic) and Mitsui & Co. Ltd. (Mitsui) minority stakes in the Bayovar phosphate rock project located in Peru, through newly created MVM Resources International B.V. (MVM), which manages and operates the project.

Vale sold 35% of the total capital of MVM to Mosaic for US\$ 385 million (equivalent to R\$ 682 million on the date of transaction), in a one-time payment, and 25% of the total capital of MVM to Mitsui for US\$ 275 million (equivalent to US\$ 487 million on the date of transaction), in a one-time payment. Vale maintains control of the Bayóvar project, with 51% of the voting capital and 40% of the total capital of MVM, and is party in a shareholders' agreement entered with Mitsui and Mosaic.

Sale of minority interest in Vale Oman Pelletizing Company

On May 29, 2010, Vale entered into an agreement with Oman Oil Company S.A.O.C. (OOC), an integrated subsidiary of the government of the sultanate of Oman, to sell a 30% interest in Vale Oman Pelletizing Company LLC (VOPC) for an amount equivalent in *Omani Rials* to US\$ 125 million (equivalent to R\$ 228 million on the date of closing of agreement). Payment was agreed as follows: (i) US\$ 71 million paid by OOC against transfer of all the shares held by Vale Mauritius Limited; and (ii) US\$ 54 million by assuming the debt originally contracted by VOPC along with Vale International. VOPC is a subsidiary that was created by Vale to build and operate a pelletizing plant in the Industrial District of Porto de Sohar, in Oman. The transaction was concluded in October 2012, upon compliance with conditions set forth in the stock purchase and sale agreement. The Shareholders Agreement entered into with OOC, in turn, provides for the operational and administrative management of the pelletizing plant by Vale.

Increased participation in Belvedere

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On June 1, 2010, Vale acquired from AMCI Investments Pty Ltd (AMCI) for US\$ 92 million (equivalent to R\$ 168 million on the date of payment), in a one-time payment, an additional share of 24.5% in the Belvedere coal project. As a result of this transaction, Vale's participation in Belvedere goes from 51.0% to 75.5%. On January 31, 2013, Vale entered into additional purchase agreements, upon acquisition of an additional 24.5% interest in the Belvedere coal project (Belvedere) from Aquila Resources Limited (Aquila). The purchase price of A\$150 million (equivalent to US\$ 156 million using the AUD/USD rate of 1.04) is equivalent to the market value recently determined by an independent evaluation, hired by Vale and Aquila. The acquisition is subject to approval by the government of Queensland, Australia. As result of this transaction, Vale will increase its share into Belvedere to 100%. Additionally, Vale agreed upon paying A\$20 million (equivalent to US\$ 21 million) to settle litigations and disputes related to Belvedere with Aquila. As a whole, Vale will have paid US\$338 million for 100% of Belvedere. Belvedere is a future opportunity of growth and is comprised of an underground coal mine located in the South of Bowen Basin, close to the town of Moura, in the State of Queensland, Australia. The project is in the initial development phase, and consequently, subject to approval by Vale's Board of Directors. According to preliminary estimates, the Belvedere project has the potential to reach a production capacity of 7.0 million metric tons per year, mostly of metallurgical coal.

Sale of interest in PPSA

On June 29, 2010, Vale signed a sales agreement with Imerys S.A. (company listed in Euronext) to sell its interest of 86.2% in Pará Pigmentos S.A. (PPSA) and other kaolin mining rights located in Pará for US\$ 74 million (equivalent to R\$ 131 million on the date of transaction), in a one-time payment. The operation

Table of Contents

was concluded on July 26, 2010 and approved by the Brazilian regulating authority on December 15, 2010.

Acquisition of interest in SDCN

On September 21, 2010, Vale acquired 51% of Sociedade de Desenvolvimento do Corredor Nacala S.A. (SDCN) for US\$ 21 million (equivalent to R\$ 36.6 million on the date of payment), in a one-time payment, from Mozambican company SGPS SA (Insitec). SDCN holds, indirectly, concessions to create the logistics structure required for the production flow resulting from the second phase of Moatize coal project. SDCN controls, through a 51% interest, Corredor de Desenvolvimento do Norte S.A. (CDN) and Central East African Railway Limited (CEAR). CDN is responsible for the concession of a railway section of 872 km in Mozambique, linking Entrelagos, in the province of Niassa, with the port of Nacala, in the province of Nampula, to the North of Mozambique and the port of Nacala. CEAR holds the concession of the whole railway system of Malawi, currently consisting of 797 km of railway lines connecting the whole country along the north-south and east-west axes. CDN and CEAR railway systems are interconnected and close to Moatize mineral region, in the province of Tete, Mozambique, therefore providing an additional logistic corridor for the coal to be produced in the area. Vale is party in a SDCN shareholders agreement. Additionally, there is a shareholders agreement of CDN and another of CEAR, executed with SDCN and CFM (holder of the remaining 49% interest in each company).

2011

Restructuring of aluminum assets portfolio

On February 28, 2011, Vale announced the completion, through subsidiary Vale Austria Holdings GmbH, of the operation with Norsk Hydro ASA (Hydro) (company listed in the Oslo Stock Exchange and London Stock Exchange) announced on May 2, 2010, to transfer all its interests in Albras - Alumínio Brasileiro S.A. (Albras), Alunorte - Alumina do Norte do Brasil S.A. (Alunorte) and Companhia de Alumina do Pará (CAP), along with their respective rights of exclusivity, commercial agreements and net debt of US\$ 655 million, for 22% of the outstanding common shares of Hydro and US\$ 503 million (equivalent to R\$ 836 million on the date of transaction) in cash, after adjustments, in a one-time payment.

Besides, Vale created a new company, Mineração Paragominas S.A. (Paragominas), to which it transferred the bauxite mine of Paragominas and all the other mining rights relating to bauxite in Brazil. As a part of this transaction, Vale sold 60% of Paragominas to Hydro for US\$ 578 million (equivalent to R\$ 960 million on the date of transaction), in a one-time payment, in cash. The remaining portion of 40% will be sold in two equal parts of 20% within 3 and 5 years, for US\$ 200 million in cash.

Pursuant to the terms of the operation, Vale will not be allowed to sell its shares issued by Hydro for a period of 2 years nor will it be allowed to increase its interest in Hydro beyond 22%. Besides, as another part of the agreement, Vale is entitled to appoint a representative in the Board of Directors of Hydro. The operation was approved by Brazilian regulating authorities on January 19, 2011 and the Korean and Japanese regulating authorities on April 15, 2011.

Acquisition of Biopalma in Brazil

In February 2011, Vale acquired the majority stock of Biopalma da Amazônia S.A. Reflorestamento, Indústria e Comércio, in the State of Pará (Biopalma). The amount of the transaction was R\$ 290.2 million, paid in cash and at present Vale owns a 70% interest in this partnership. The right to vote is regulated by the shareholder s agreement. Biopalma will produce palm oil (dende oil) as feedstock to manufacture biodiesel, and most of the production will be used for a B20 blend (a mixture of 20% of biodiesel and 80% of regular diesel oil), as a fuel for our fleet of locomotives, equipment and heavy machinery. Our investment in production of biodiesel forms part of our strategic focus on global sustainability. The operation was approved by Brazilian regulating authorities on May 18, 2011.

Acquisition of an interest in Belo Monte power project

On April 28, 2011, the Board of Directors approved the acquisition of up to 9% of the capital of Norte Energia S.A. (NESA), a stake then held by Gaia Energia e Participações S.A (Gaia). NESA is a company whose sole purpose is the implementation, operation and management of Belo Monte hydroelectric power plant in the Brazilian State of Pará. Vale reimbursed Gaia for its capital contributions to NESA and

Table of Contents

undertook to make future capital contributions as a result of the acquired stock interest, estimated at R\$ 2.3 billion (equivalent to US\$ 1.4 billion). This acquisition is consistent with the Company strategy to reduce operating costs and minimize the price of power and the risks of supply. The operation was completed on June 30, 2011, upon transfer to Vale of 9% of the shares issued by NESA, held by Gaia, and execution of the amendment to NESA's shareholders' agreement to regulate the entrance of Vale, and other terms. The operation was filed before CADE - the Administrative Board for Economic Defense and approved with no restrictions on August 31, 2011.

Takeover to acquire shares of Vale Fertilizantes S.A.

In June 2011, Vale announced submission to the Board of Directors of a proposal by the executive directors for a takeover of up to 100% of shares issued by the subsidiary Vale Fertilizantes, aiming to close its capital. The takeover was approved by the Board of Directors on June 30, 2011 and was registered before the Brazilian Securities Commission (CVM) on July 15, 2011. The offer's tender was issued on November 10, 2011. The Takeover comprised the payment for shares in cash by the subsidiary Mineração Naque S.A., at R\$25.00 per share, either common or preferred shares issued by Vale Fertilizantes, corresponding to a 41% premium over the average price of preferred shares traded in the last 20 trading days prior to the disclosure of the offer, in June 2011. On December 12, 2011, Vale concluded the Offer, resulting in the acquisition of 211,014 common shares and 82,919,456 preferred shares issued by Vale Fertilizantes, representing 83.8% of the common shares and 94.0% of preferred shares. On December 23, 2011, Vale Fertilizantes has its registration as open capital company cancelled before CVM. On January 24, 2012, Vale Fertilizantes redeemed 5,314,386 shares, balance of shares issued by the company, and Vale now holds, through subsidiaries, 100% of common and preferred shares issued by Vale Fertilizantes. The total disbursement by Vale and Vale Fertilizantes was R\$2.2 billion.

Agreement to explore concession of port terminal in Santos

In July 2011, Vale signed an agreement to incorporate a *joint venture* with Vale Fertilizantes for purposes of exploring the concession of the Terminal Portuário da Ultrafertil (TUF). TUF is located in the city of Santos, State of São Paulo, and moves imported cargo of sulfur, ammonia and fertilizers in general, strategically connected to Vale's railroads. Vale will hold a 51% interest in the joint venture, acquired upon payment of R\$150 million to Vale Fertilizantes and capital investment in the joint venture of R\$432 million to fund TUF's investment plan. The joint venture positions Vale to serve, in a competitive way, the agribusiness growth in Brazil. Simultaneously, the investment in TUF strengthens the logistic infrastructure of the fertilizer business helping to make expansion feasible in the coming years.

2012

Lease of mining potash rights and assets

On April 23, 2012, Vale signed with Petróleo Brasileiro S.A. (Petrobras) the renewal of the lease agreement for potash mining rights and assets in Sergipe for a thirty-year period that allows continuing to mine potash in Taquari-Vassouras and the development of the Carnalita project. In the production phase, there is an estimate that Carnalita will be the largest potash operation in Brazil, with estimate production capacity of 1.2 million tons of potash per year. The agreement is in line with Vale's growth strategy to become one of the world leaders in the fertilizing industry.

Sale of interest in CADAM

On April 26, 2012, Vale signed the sale agreement for its 61.5% interest in Cadam S.A (CADAM), for US\$ 30.1 million (equivalent to R\$ 58.0 million on the transaction date), to KaMin LLC (a North-American closed capital company). CADAM is a producer of kaolin operating with open pit mines in the state of Amapá, a processing plant and a private port, both in the state of Pará. The mine and the plant are connected by a 5.8 km pipeline. Vale will receive US\$ 30.1 million for the shareholding control of CADAM, to be paid in five years. Operation was concluded on May 7, 2012. The sale of CADAM is part of the Company's continuous efforts to optimize its asset portfolio. With the sale of Pará Pigmentos S.A. (PPSA), in 2010, the sale of CADAM consolidates the sale of the kaolin business. Vale's growth strategy to create sustainable value encompasses several options and active portfolio management is very important to optimize capital allocation and focus administration.

Table of Contents

Sale of Coal Assets from Colombia

On May 28, 2012, Vale signed an agreement to sell its thermal coal operations in Colombia to CPC S.A.S, a subsidiary of Colombian Natural Resource S.A.A (CNR), a private company, for US\$ 407 million in cash (equivalent to R\$ 843 million on the transaction date), and subject to regulatory approval. The sale was concluded on June 25, 2012.

The thermal coal operations in Colombia are an integrated mine-railway-port system that consists of: (a) 100% of the El Hatillo coal mine and the coal deposit in Cerro Largo, both of which are located in Cesar's department; (b) 100% of Sociedad Portuária Rio Córdoba (SPRC), a coal port operation on Colombia's Atlantic Coast; and (c) participation in 8.43% of the Ferrocarriles Del Norte de Colombia S.A. (FENOCO) railway, which has the concession and operated the railways that connect the coal mines to SPRC.

The sale of the thermal coal operation in Colombia is part of continued efforts to optimize the company portfolio of assets. Vale's strategy for sustainable growth and value creation encompasses multiple options, and management of its portfolio of assets is important to optimize the allocation of capital and focus the attention of the administration.

Sale of manganese ferroalloy assets in Europe

On July 9, 2012, Vale signed an agreement to sell its manganese ferroalloy operations in Europe to Glencore Internacional Plc. subsidiaries, a company listed in the London and Hong Kong stock markets, for US\$ 160 million (equivalent to R\$ 325 million on the transaction date) in cash. The manganese ferroalloy operations in Europe consist of: (a) 100% of Vale Manganese France SAS, located in Dunkirk, in France; and, (b) 100% of the Vale Manganese Norway AS, located in Mo I Rana, Norway. The sale was concluded on October 31, 2012, upon checking compliance with all conditions. The sale of the manganese ferroalloy operations in Europe is part of continued efforts to optimize the company portfolio of assets. Vale's strategy for sustainable growth and value creation encompasses multiple options, and management of its portfolio of assets is important to optimize the allocation of capital and focus the attention of the administration.

Sale of marine transport assets

On August 31, 2012, Vale signed an agreement to sell, for US\$ 600 million and posterior chartering, of 10 large ore carrier ships with Polaris Shipping Co. Ltd. (Polaris). These ships were acquired in 2009 / 2010 and converted from oil tankers to ore carriers, each with an approximate capacity of 300,000 DWT, so that Vale would have at its disposal a marine fleet dedicated to the transport of iron ore to its clients. The sold ships will be chartered by Vale through long term chartering contracts signed with Polaris. In addition to freeing capital, the transaction preserves Vale's ability to transport iron ore by sea having the ships at its disposal, but eliminating the risks involved in ownership and operation. This transaction is part of continued efforts to optimize the company portfolio of assets, improving capital allocation and reinforcing the balance sheet.

Sale of fertilizer assets

On December 18, 2012, Vale signed with Petrobras an agreement to sell Araucária, a nitrogen production operation located in Araucária in the state of Paraná, for US\$ 234 million. The purchase price will be paid by Petrobras in quarterly payments, 100% adjusted by the Interbank Deposit Certificate (CDI), in amounts that are equivalent to the royalties owned by Vale relative to the potash assets leasing and mining rights at Taquari-Vassouras and the Carnalita project. The sale is subject to the fulfillment of preconditions, including approval by the Administrative Council for Economic Defense (CADE). Araucária has an annual production capacity of approximately 1.1 million tons of ammonia and urea. The divestment of assets like Araucária, which do not have synergy with the Company's portfolio, is consistent with efforts to improve the allocation of capital and revenue generation to complement the financing of investments considered a priority, with great potential for value generation. The Araucária sale also contributed to a reduction in investments to sustain existing operations in the amount of US\$ 50 million per year.

Table of Contents

Sale of participation in oil and gas concession

On December 21, 2012, Vale signed an agreement with Statoil Brasil Óleo e Gás Ltda (Statoil) to sell its 25% participation in the BM-ES-22A concession in the Espírito Santo Basin for the amount of US\$ 40 million (equivalent to R\$ 82 million on the transaction date), in cash. Besides, the sale exempts Vale from investment liabilities in the amount of US\$ 80 million until the end of 2013. The completion of this transaction is subject to the fulfillment of usual precondition and approval. Vale's strategy for sustainable growth and value generation encompasses multiple options, and the active management of its portfolio is an important action to optimize the allocation of capital and to focus management efforts.

6.6 Information on bankruptcy filing based on relevant values, or judicial or extrajudicial recovery

Not applicable. There are no bankruptcy filings based on relevant values, or judicial or extrajudicial recovery of the Company.

6.7 Other relevant information

Review of the iron ore project Simandou, in the Republic of Guinea.

As indicated in item 6.5 of this Reference Form, on April 30, 2010, Vale acquired from BSG Resources Ltd. (BSGR) a 51% stake in BSG Resources (Guinea) Ltd. (currently named VBG - Vale BSGR Limited), which holds concessions for iron ore in Guinea, Simandou South (Zogota) and exploration permits for Simandou North (Blocks 1 & 2), in the Republic of Guinea.

VBG mining project is currently under review by a technical commission created by the government of Guinea and, for this reason, we suspended the works on this project. We acquired our share for US\$ 2.5 billion, where US\$ 500 million were paid at the closure and the balance is to be paid upon specific milestones, and an additional US\$ 180 million, if specific conditions are complied with by December 2012. The seller, holding 49% of VBG, required that Vale made the additional payment, claiming that conditions were complied with. We argued that this claim is not applicable considering that conditions were not complied with and, additionally, there was a force majeure event, under the terms of the agreement. We intend to strongly defend our position should the seller files any procedure requesting payment.

Table of Contents

7.1 Description of activities engaged by the issuer and its subsidiaries

Vale is the one of the largest mining companies in the world and the largest in the Americas by market value. The Company is the largest iron ore producer and second largest nickel producer in the world. Vale also produces manganese ore, ferroalloys, copper, thermal and metallurgical coal, phosphates, potash, cobalt, and platinum group metals (PGMs). To sustain its growth strategy, Vale is actively engaged in mineral exploration in 15 countries. The Company operates large logistics systems in Brazil and in other areas of the world integrated with its mining operations, including railroads, maritime terminals and ports. In addition, the Company has a portfolio of maritime freight to transport iron ore. Vale also has significant investments in the sectors of energy and steel, directly or through subsidiaries and joint ventures.

7.2 Information on operational segments

a. Products and services marketed in each operating segment

(i) Bulk Materials Includes extraction of iron ore and production of pellets, as well as the North, Southern and Southeastern transportation systems, including railroads, ports, maritime terminals, and ships linked to these operations. Manganese ore and the production of ferroalloys and coal are also included in this segment.

(ii) Base metals Includes the production of non-ferrous minerals, including production of nickel (co-products and by-products), copper and investments in aluminum partnerships.

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(iii) *Fertilizers* Includes three important nutrient groups: potassium, phosphates and nitrogen. This is a new business segment, reported as of 2010, that is being formed through acquisitions and organic growth.

(iv) *Logistics* Includes the system of cargo transportation for third parties, divided into ports, rail and maritime transport and shipping services.

(v) *Other investments* Includes investments in joint ventures and affiliates in other businesses.

The information presented to upper management regarding performance of each segment are usually originated from accounting records maintained according to generally accepted accounting principles in Brazil, with some minimum relocations between segments.

Table of Contents**b. Revenue from the segment and its participation in the Company's net revenues**

In R\$ thousands Segment	2012		2011		2010	
	Net Revenue	% of total	Net Revenue	% of total	Net Revenue	% of total
Bulk Materials	68,901,475	74	77,226,147	76	61,482,495	74
Base Metals	13,933,389	15	16,069,590	16	14,377,415	17
Fertilizers	7,008,169	7	5,551,489	5	3,013,814	4
Logistics	2,709,634	3	2,367,163	2	2,773,115	3
Other Investments	958,810	1	804,837	1	1,578,167	2
Total Revenue	93,511,477	100	102,019,226	100	83,225,006	100

c. Profit or loss resulting from the segment and its participation in the Company's net income

In R\$ thousand Segment	2012		2011		2010	
	Profit/Loss	% of total	Profit/Loss	% of total	Profit/Loss	% of total
Bulk Materials	20,084,008	206	36,286,626	96	30,855,508	103
Base Metals	(9,200,185)	-95	3,291,738	9	(739,403)	-2
Fertilizers	2,345,589	24	81,568		(58,874)	
Logistics	(320,549)	-3	(39,759)		453,328	2
Other Investments	(3,175,169)	-33	-(1,806,449)	-5	(440,508)	-1
Net Profit of the period	9,733,696	100	37,813,724	100	30,070,051	100

7.3 Information on products and services related to the operating segments

- a. Characteristics of the production process
- b. Characteristics of the distribution process
- c. Characteristics of the markets, in particular:
 - i. competition conditions in the markets
 - ii. participation in each market
- d. Possible seasonality

1. Bulk materials

The Company's bulk materials business includes iron ore prospecting, pellet production, coal production, manganese prospecting, and ferroalloy production. Each activity is described below.

1.1 Iron Ore and pellets

1.1.1 *Iron ore operations*

Vale runs the majority of its iron ore operations in Brazil directly and through its wholly-owned subsidiary Mineração Corumbaiense Reunida S.A. (MCR) and our subsidiary MBR. Our mines, which are all open-pit and our operations are concentrated essentially in three systems: the Southeastern System, the Southern System and the Northern System, each with its own transportation capacity. Vale also has mining operations in the Centralwestern System through Samarco Mineração S.A. (Samarco), a joint venture with BHP Billiton plc, where Vale holds 50% interest. All iron ore operations in Brazil are held under concession by the federal government, which are guaranteed for undetermined period.

Firm / Mining System	Location	Description / History	Mining	Operations	Power source	Access / Transportation
Vale Northern System	Carajás, Pará	Open-pit mines and ore processing plants. Divided into North Range, South Range, and East	High grade hematite (66.7% on average).	One-pit mining operations. The beneficiation process consists simply of sizing operations,	Power provided by the national power network, acquired	The iron ore is transported by the Carajás Railroad (EFC) to the Ponta da Madeira maritime terminal

Table of Contents

Firm / Mining System	Location	Description / History	Mining	Operations	Power source	Access / Transportation
		Range (North, South, and East). Since 1985, we have been conducting mining activities in the northern range, which is divided into three main mining bodies (N4W, N4E and N5).		including screening, hydrocycloning, crushing and filtration. The beneficiation process produces sinter feed and pellet feed.	from regional utility companies.	in the state of Maranhão.
Southeastern System	Iron Quadrangle region of the state of Minas Gerais	Three locations: Itabira (two mines, with two important processing plants), Minas Centrais (three mines, with three important processing plants and one secondary plant) and Mariana (three mines and four processing plants).	The ore reserves have high ratios of itabirite ore relative to hematite ore. Itabirite ore has iron grade between 35% and 60% and requires concentration to achieve shipping grade.	Open-pit mining operations. We generally process the run-of-mine (ROM) by means of standard crushing, followed by classification and concentration steps, producing sinter feed, lump ore and pellet feed in the beneficiation plants located at the mining sites.	Power provided by the national power network, acquired from regional utility companies or produced directly by Vale.	The Vitória a Minas Railroad (EFVM) connects these mines to the Tubarão port.
Southern System	Iron Quadrangle region of the state of Minas Gerais	Three major locations: Minas Itabirito (four mines, with two major beneficiation plants and three secondary beneficiation plants); Vargem Grande (three mines and one major beneficiation plant); and Paraopeba (four mines and three beneficiation plants).	The ore reserves have high ratios of itabirite ore relative to hematite ore. Itabirite ore has iron grade between 35% and 60% and requires concentration to achieve shipping grade.	Open-pit mining operations. We generally process the run-of-mine (ROM) by means of standard crushing, followed by classification and concentration steps, producing sinter feed, lump ore and pellet feed in the beneficiation plants located at the mining sites.	Power provided by the national power network, acquired from regional utility companies or produced directly by Vale.	Our affiliate MRS transports our ore products from the mines to Guaíba Island and Itaguaí maritime terminals in the state of Rio de Janeiro.
Centralwestern System (1)	State of Mato Grosso do Sul	Comprised of Urucum and Corumbá mines.	The iron ore reserves in Urucum and	Open-pit mining operations. The ROM is processed	Power provided by the national power network,	The iron ore products from the Urucum and

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Open-pit mining operations.

Corumbá contain a high level of hematite ore that mainly generates granulated ore.

through standard crushing, followed by

acquired from

Corumbá mines are delivered to clients through Vale vessels sailing on

Table of Contents

Firm / Mining System	Location	Description / History	Mining	Operations	Power source	Access / Transportation
				classification, producing granulated and fine.	regional utility companies.	Paraguay and Paraná rivers.
Samarco	Iron Quadrangle region of the state of Minas Gerais	Integrated system comprised of two mines, two processing plants, one pipeline, three pellet plants and a port.	Itabirite	Open-pit mining operations. Both processing plants located in the facility process ROM by means of standard crushing, classification and concentration steps, producing sinter feed, lump ore and pellet feed.	Power provided by the national power network, acquired from regional utility companies.	Samarco mines serve Samarco processing plants by two pipelines of approximately 400 km. These pipelines transport the iron ore from the processing plants to the pelleting plants and from the pelleting plants to the port, in the State of Espírito Santo.

(1) Part of our operations in the Centralwestern System is conducted by MCR.

1.1.2. Iron Ore Production

The following table sets forth information about our iron ore production.

Mine/Plant	Type	Production for fiscal year ended on			Recovery Rate (%)
		2010	December 31 2011 (million metric tons)	2012	
Southeastern System					
Itabira					
Cauê	Open pit	19.3	18.6	17.8	63,4
Conceição	Open pit	19.4	21.4	19.9	76,0
Minas Centrais					
Água Limpa(1)	Open pit	5.0	5.0	4.6	46,6
Gongo Soco	Open pit	6.8	5.3	4.4	99,7
Brucutu	Open pit	29.7	30.9	31.7	76,8
Mariana					
Alegria	Open pit	13.6	14.7	14.7	84,2
Fábrica Nova	Open pit	12.5	13.2	13.0	70,1
Fazendã	Open pit	10.6	11.1	9.5	100,0

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Total Southeastern System		116,9	120.2	115.6	
Southern System Minas Itabirito					
Segredo/João Pereira	Open pit	12.4	11.8	12.2	75,7
Sapocado/Galinheiro	Open pit	17.7	18.6	19.6	69,6
Vargem Grande					
Tamanduá(8)	Open pit	8.6	8.8	9.7	80,6
Capitão do Mato	Open pit	8.2	7.3	7.3	80,6
Abóboras	Open pit	5.2	5.3	5.6	100,0
Paraopeba					

Table of Contents

Mine/Plant	Type	Production for fiscal year ended on			Recovery Rate (%)
		2010	December 31 2011 (million metric tons)	2012	
Jangada	Open pit	3.5	5.1	6.1	100,0
Córrego do Feijão	Open pit	6.8	6.8	6.8	79,8
Capão Xavier(9)	Open pit	9.3	8.4	9.6	84,8
Mar Azul	Open pit	3.0	4.1	3.3	100,0
Total Southern System		74,7	76.3	80.3	
Centralwestern System					
Corumbá	Open pit	2.8	4.1	4.6	76.6
Urucum	Open pit	1.4	1.5	1.8	77.9
Total Centralwestern System		4.2	5.6	6.4	
Northern System					
<i>Serra Norte</i>					
N4W	Open pit	33.4	38.9	39.3	91,4
N4E	Open pit	22.2	20.1	18.7	91,4
N5	Open pit	45.6	50.8	48.8	91,4
Total Northern System		101,2	109.8	106.8	
Vale		297,0	311.8	309,0	
Samarco (2)		10,8	10.8	10.9	56.8
Total		307,8	322.6	320.0	

(1) The mine and the Água Limpa plant are owned by Baovale, in which we own 100% of the voting shares and 50% of the total shares. Production figures for Água Limpa were not adjusted to reflect our ownership interest

(2) Production figures for Samarco, in which we have a 50% interest, have been adjusted to reflect our ownership interest.

1.1.3. Pellet Operations

Directly and through joint ventures, Vale produces pellets in Brazil, in Oman and in China, as shown in the table below. Our estimated total nominal capacity is 57.2 Mtpa, including the total capacity of Oman plants, but without including our joint ventures Samarco, Zhuhai YPM Pellet Co., Ltd. (Zhuhai YPM) and Anyang Yu Vale Yongtong Pellet Co., Ltd. (Anyang). Of our total 2012 pellet production, including the production from our joint ventures, 65.3% was blast furnace pellets, and the remaining 34.7% was direct reduction pellets, which are used in steel mills that employ the direct reduction process rather than blast furnace technology. We sold iron ore to our pelletizing plants and joint ventures, except for Samarco, Zhuhai YPM and Anyang, to whom we supplied only part of the required ore. In 2012, we sold 2.4 million metric tons to Hispanobras, 10.2 million metric tons to Samarco and 0.9 million metric tons to Zhuhai YPM.

Firm / Plant	Description / History	Nominal capacity (Mtpa)	Power source	Other information	Our participation (%)	Partners
<u>Brazil:</u>						
Vale						
Tubarão (State of Espírito)	Our two pelletizing units (Tubarão I and II) and leasing of five plants,	29.2	Power provided by the national power network, acquired from regional	Pelleting operations held in Tubarão I and II are suspended since		

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Santo)	including Hispanobras, on July 1, 2012. The iron ore is received from our mines in the Southeastern System and distribution is done by our logistics	utility companies or produced directly by Vale.	November 13, 2012, due to changes in the demand of the steel industry for raw material (reduction in pellet consumption in
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Table of Contents

Firm / Plant	Description / History	Nominal capacity (Mtpa)	Power source	Other information	Our participation (%)	Partners
	infrastructure.			favor of <i>sinter feed</i>)		
Fábrica (State of Minas Gerais)	Part of the Southern System. Receives iron ore from the mine Fábrica. Production is transported through MRS Logística S.A. (<u>MRS</u>) and EFVM.	4.5	Power provided by the national power network, acquired from regional utility companies or produced directly by Vale..	-		
Vargem Grande (State of Minas Gerais)	Part of the Southern System. Receives iron ore from the mine Pico, and production is transported through MRS.	7.0	Power provided by the national power network, acquired from regional utility companies or produced directly by Vale..	-		
São Luís (State of Maranhão)	Part of the Northern System. Receives iron ore from Carajás and production is delivered to customers through our Ponta da Madeira maritime terminal.	7.5	Power provided by the national power network, acquired from regional utility companies or produced directly by Vale..	On October 8, 2012, we temporarily suspended operations at the pelleting plant in São Luís, for reasons similar to the ones that led to the suspension of operations at the Tubarão I and II plants.		
Samarco	Three pelleting units in two operating units with nominal capacity of 22.3 Mtpa. Pelleting units are located at Ponta Ubu, in Anchieta, Espírito Santo.	22.3	Power provided by the national power network, acquired from regional utility companies or produced directly by Samarco.	Construction of a fourth pelleting plant with capacity of 8.3 Mtpa, to increase Samarco s pelleting nominal capacity to 30.5 Mtpa.	50.0	BHP Billiton plc
<u>Oman:</u> Vale Oman Pelletizing Company LLC	Sohar Industry Complex. Two pelleting plants	9.0	Power provided by the national	Both plants are operating at full capacity since	70.0	Oman Oil Company S.A.O.C.

Table of Contents

Firm / Plant	Description / History	Nominal capacity (Mtpa)	Power source	Other information	Our participation (%)	Partners
(<u>VOPC</u>)	(total capacity of 9.0 Mtpa for direct reduction pellets). Pelleting plants are located in an area where there will be a distribution center with processing capacity of 40.0 Mtpa.		power network.	March 2012. In October 2012, according to the Shareholders Agreement dated May 29, 2010, signed between Vale International and Oman Oil Company S.A.O.C. (<u>OOC</u>), 30% of VOPC interest was transferred to OOC for US\$ 71 million.		
China:						
Zhuhai YPM	Part of the Yueyufeng Steel Complex. Port facilities, we use to receive <i>pellet feed</i> from our mines in Brazil. Main customer is Zhuhai Yueyufeng Iron & Steel (<u>YYF</u>), also located in the Yueyufeng Steel Complex.	1.2	Power provided by the national power network.	-	25.0	Zhuhai Yueyufeng Iron and Steel Co. Ltd., Pioneer Iron and Steel Group Co, Ltd.(1)
Anyang	Pelleting operation in China with production capacity of 1.2 Mtpa and which production started in March 2011.	1.2	Power provided by the national power network.	-	25.0	Anyang Iron & Steel Co. Ltd.

(1) Based on the most recent business license held by Zhuhai YPM filed publicly.

1.1.4. Pellet Production

The table below provides information regarding our main pellet production.

Firm	Production for fiscal year ending on December 31		
	2010	2011	2012
	(million metric tons)		
Vale(1)	36.3	39.0	40.2
Hispanobras(2)	1.9	2.1	4.3

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Samarco (3)	10.8	10.7	10.7
Zhuhai YPM (3)	0.3	0.3	0.2
Anyang (3)		0.2	0.2
Total	49.3	52.3	55.6

(1) Figure reflects actual production, including the total production from our pellet plants in Oman and four pelleting plants we leased in 2008. We signed a 10-year operating lease contract for Itabrasco's pellet plant in October 2008. We signed a five-year operating lease contract for Kobrasco's pellet plant

Table of Contents

in June 2008. We signed a 30-year operating lease contract for Nibrasco's two pellet plants in May 2008.

(2) Production figures in 2012 are 100% consolidated on a pro-forma basis. On July 1, 2012, we signed a three-year operating lease contract for Hispanobras' pelleting plant.

(3) Production figures for Samarco, Zhuhai YPM, and Anyang were adjusted to reflect our ownership interest.

1.1.5. Clients, sales, and marketing

We supply all of our iron ore and pellets (including our share in joint-venture pellet production) to the steel industry. Prevailing and expected levels of demand for steel products affect demand for our iron ore and pellets. Demand for steel products is influenced by several factors, such as global industrial production, civil construction and infrastructure investment.

In 2012, China accounted for 49% of our iron ore and pellet shipments, and Asia, as a whole, accounted for 66.2%. Europe accounted for 17.1%, followed by Brazil with 11.7%. Our ten largest customers collectively purchased 112 million metric tons of iron ore and pellets from us, representing 37% of our shipments and 35% of our total iron ore and pellet revenues in 2012. In 2012, no individual customer accounted for more than 10.0% of our iron ore and pellet shipments.

In 2012, the Asian market (mainly Japan, South Korea, and Taiwan) and the European market were the primary markets for our blast furnace pellets, while the Middle East, North America and North Africa were the primary markets for our direct reduction pellets.

We strongly emphasize customer service in order to improve our competitiveness. We work with our customers to understand their main objectives and to provide them with iron ore solutions to meet specific customer needs. Using our expertise in mining, agglomeration and iron-making processes, we search for technical solutions that will balance the best use of our world-class mining assets and the satisfaction of our customers. We believe that our ability to provide customers with a total iron ore solution and the quality of our products are very important advantages helping us to improve our competitiveness in relation to competitors who may be more conveniently located geographically. In addition to offering technical assistance to our customers, we operate sales support offices in Tokyo (Japan), Seoul (South Korea), Singapore, Dubai (UAE), and Shanghai (China) which support the sales made by Vale International, wholly owned subsidiary of Vale International Holdings GmbH (former Vale Austria Holdings GmbH), located in St. Prex, Switzerland. These offices also allow us to stay in closer contact with our customers, monitor their requirements and our contract performance, and ensure that our customers receive timely deliveries.

We sell iron ore and pellets under different agreements, including long term agreement with customers and spot sales by means of auctions and business platforms. We adopt different price mechanisms for our sale, usually related to the Chinese spot market, including quarterly pricing (based on the current quarter or average values outdated by price indexes), monthly average of price indexes, and daily prices defined at specific dates.

1.1.6. Competition

The global iron ore and iron ore pellet markets are highly competitive. The main factors affecting competition are price, quality and range of products offered, reliability, operating costs and shipping costs.

Our biggest competitors in the Asian market are located in Australia and include subsidiaries and affiliates of BHP Billiton plc (BHP Billiton), Rio Tinto Ltd. (Rio Tinto), and Fortescue Metals Group Ltd (FMG). Although the transportation costs of delivering iron ore from Australia to Asian customers are generally lower than ours as a result of geographical proximity, we are competitive in the Asian market for two main reasons. First, steel companies generally seek to obtain the types (or blends) of iron ore and iron ore pellets that allow them to produce the intended final product in the most economical and efficient manner. Our iron ore has low impurity levels and other properties that generally lead to lower processing costs. For example, in addition to its high grade, the alumina grade of our iron ore is very low compared to Australian ores, reducing consumption of coke and increasing productivity in blast furnaces, which is particularly important during periods of high demand. When demand is very high, our quality differential is many times more important to customers than a freight differential. Second, steel companies often develop sales relationships based on a reliable supply of a specific mix of iron ore and iron ore pellets. We have a customer-oriented marketing policy and place specialized personnel in direct contact with our customers to help determine the blend that best suits each particular customer.

Table of Contents

In terms of reliability, our ownership and operation of logistics facilities in the Northern and Southeastern Systems help us ensure that our products are delivered on time and at a relatively low cost. In addition, we continue developing a low-cost freight portfolio, aimed at enhancing our ability to offer our products in the Asian market at competitive prices and to increase our market share. To support this strategy, we built a distribution center in Oman and a floating transfer station in the Philippines, which are operating. We are also building another floating transfer station in Asia, to be concluded in 2013, and we are investing in another distribution center in Malaysia. Additionally, we ordered new ships, purchased used vessels and entered into medium and long-term freight contracts. These investments increase the speed and flexibility for customization and reduce the market time required for our products.

Our principal competitors in Europe are: Kumba Iron Ore Limited; Luossavaara Kiirunavaara AB (LKAB); Société Nationale Industrielle et Minière (SNIM); and Iron Ore Company of Canada (IOC), subsidiary of Rio Tinto. We are competitive in the European market for the same reasons we are competitive in Asia, but also due to the proximity of our port facilities to European customers.

The Brazilian iron market is also competitive. There are several smaller iron ore producers and new companies that are developing projects, such as Anglo Ferrous Brazil, MMX, Ferrous Resources and Bahia Mineração. Some steel plants, as Gerdau S.A. (Gerdau), Companhia Siderurgica Nacional (CSN), V&M do Brasil S.A. (Mannesmann), Usiminas, and ArcelorMittal, also have iron ore operations. Although price is important, quality and reliability are important factors as well. We believe that our integrated transportation systems, our high quality ore and technical support make us a strong competitor in the Brazilian market.

Regarding pelleting, our main competitors are LKAB, Cliffs Natural Resources Inc., ArcelorMittal Canada (formerly Quebec Cartier Mining Co.), IOC, and Gulf Industrial Investment Co.

1.2 Coal*1.2.1 Operations*

We produce metallurgic and thermal coal by our subsidiaries Vale Moçambique, which operates the Moatize mine, and Vale Australia, which operates coal assets in Australia by wholly-owned subsidiaries and joint ventures. From 2009 to June 2012, we also conducted thermal coal operations in Colombia. In June 2012, we sold our thermal coal operations in Colombia for US\$407 million, paid in cash. We also hold minority interest in two Chinese companies, Henan Longyu Energy Resources Co., Ltd. (Longyu) and Shandong Yankuang International Coking Company Limited (Yankuang), as presented in the table below.

Company / Mining complex	Location	Description / History	Mining / Operations	Mining license	Power source	Access / Transportation
<u>Mozambique</u> Vale Moçambique Moatize	Tete, Mozambique	Open pit mine developed directly by Vale. Operations started in August 2011 and should	Produces metallurgic and thermal coal. The main brand product of Moatize is Chipanga premium	Mining concessions end in 2032, renewable	Power provided by local utility companies.	Coal is transported from the mine to the Beira

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achieve nominal production capacity of 11 Mtpa, comprised mainly of metallurgic coal. Vale holds 95.0% interest and the remaining shares are held by Empresa Moçambicana de Exploração Mineira, S.A.

hard coking coal, but there is operational flexibility for other products. The ideal product portfolio will come as result

after this date.

Supply of local back-up.

Port through railroad Linha do Sena.

Table of Contents

Company / Mining complex	Location	Description / History	Mining / Operations	Mining license	Power source	Access / Transportation
of market surveys.						
Australia						
Integra Coal	Hunter Valley, New South Wales	Open pit and underground mine acquired with AMCI Investments Pty Ltd (AMCI) in 2007, located 10 km to the Northeast of Singleton, in Hunter Valley, in New South Wales, Australia. Vale holds 61.2% interest and the remaining shares are held by Nippon Steel (NSC), JFE Group (JFE), Posco, Toyota Tsusho Australia, Chubu Electric Power Co. Ltd.	Produces metallurgic and thermal coal. Operations include a coal underground mine that produces through the <i>longwall</i> methods and an open pit mine. The coal is processed in a coal handling and preparation plant (CHPP) with capacity of 1,200 metric tons an hour.	Mining licenses expire in 2026 and 2030.	Power provided by the national power network, acquired from regional utility companies.	Production is carried in trains in a cargo railroad especially built to carry the product to the Newcastle Port, New South Wales, Australia.
Carborough Downs	Bowen Basin, Queensland	Acquired with AMCI in 2007, mining concessions in Carborough Downs include Rangal Coal Measures, from Bowen Basin, with the Leichardt and Vermont mines. Both mines offer coking and may be improved to produce metallurgic coal and pulverized injection coal (ICP). Vale holds 85.0% interest and the remaining shares are held by JFE, Posco and Tata Steel.	Metallurgic coal. The Leichardt mine is our main development goal and comprises 100% of our reserve and the basis of current resources. The Carborough Downs coal is processed at Carborough Downs CHPP, with processing capacity of 1,000 metric tons an hour, operating seven days a week.	Mining licenses expire in 2035 and 2039.	Power provided by the national power network, acquired from regional utility companies.	Product is carried in trains at the cargo railroad and carried for 172 km to the Dalrymple Bay Coal Terminal, in Queensland, Australia.
Isaac Plains	Bowen Basin, Queensland	The Isaac Plains open pit mine, acquired with AMCI in 2007, is located close to Carborough Downs, in the center of Queensland. The mine is managed by Isaac Plains Coal Management, on behalf of the parties in the <i>joint venture</i> . Vale holds 50.0% of interest and the remaining shares are held by a Sumitomo subsidiary.	Metallurgic and thermal coal. Coal is classified as medium-volatile bitumen coal, with low sulfur content. Coal is processed at Isaac Plains CHPP.	Mining licenses expire in 2025.	Power provided by the national power network, acquired from regional utility companies.	Carried for 180 kilometers to the Dalrymple Bay Coal Terminal.

China

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Longyu	Henan Province, China	Longyu has two coal mines in operation, which are located 10 km and 5 km from the town of Yongcheng, in the Henan Province. Vale holds 25.0% and the remaining shares are held by Yongmei	Metallurgic and thermal coal and other related products.	Mining concessions end in 2034.	Power provided by the national power network, acquired from regional	Products are carried by truck or train directly to customers in China or carried by
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Table of Contents

Company / Mining complex	Location	Description / History	Mining / Operations	Mining license	Power source	Access / Transportation
		Group Co., Ltd. (formerly known as Yongcheng Coal & Electricity (Group) Co. Ltd.), Shanghai Baosteel International Economic & Trading Co., Ltd. and other minor shareholders. Vale acquired an interest in Longyu by acquiring shares recently issued.			utility companies.	truck or train to the Lianyungang port
Yankuang	Shandong Province, China	Metallurgic coking plant located 10 km from the town of Yanzhou, Shandong Province. Vale holds 25.0% and the remaining shares are held by Yankuang Group Co. Ltd and Itochu Corporation. The plant was comprised by three shareholders.	Metallurgic coking, methanol, tar oil and benzene. Yankuang has production capacity of 1.7 Mtpa of coking and 200,000 tpa of methanol.	Mining concessions end in 2034.	Power provided by the national power network, acquired from regional utility companies.	Most of the coking products are transported by train, while other products are carried by truck directly to our customers in China or by train to the Rizhao port.

1.2.2 Production

The table below presents information on our coal production.

Operation	Mine type	Production during fiscal year ending December 31		
		2010	2011 (thousand metric tons)	2012
Metallurgic coal:				
<i>Vale Australia</i>				
	Underground and open pit			
Integra Coal(5)		1,151	467	962
Isaac Plains(1)	Open pit	590	635	709
Carborough Downs(2)		1,216	1,390	911
	Underground			
Broadlea	Open pit	101	0	0
<i>Vale Moçambique</i>				
Moatize(3)	Open pit		275	2,501
Total metallurgic coal		3,057	2,766	5,083

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Thermal coal:				
<i>Vale Colombia</i>				
El Hatillo(4)	Open pit	2,991	3,565	
<i>Vale Australia</i>				
Integra Coal(5)	Open pit	305	325	351
Isaac Plains(1)	Open pit	371	274	381
Broadlea(6)	Open pit	165	0	0
<i>Vale Moçambique</i>				
Moatize(3)	Open pit		342	1,267
Total thermal coal		3,832	4,506	1,999

Table of Contents

- (1) *These figures correspond to our participation of 50.0% in Isaac Plains, a joint venture constituted as a partnership.*
- (2) *These figures correspond to our participation of 85.0% in Carborough Downs, a joint venture not constituted as a partnership.*
- (3) *Moatize started production in August 2011.*
- (4) *We sold the El Hatillo mine in the second half of 2012.*
- (5) *These figures correspond to our participation of 61.2% in Integra Coal, a joint venture constituted as a partnership.*
- (6) *Broadlea Coal is in repair and maintenance since December 2009. ROM inventory was concluded in June 2010.*

1.2.3 Clients and sales

Coal sales at our operations in Australia are basically geared towards the Eastern Asian market. In 2012, our Chinese coal joint ventures directed their sales mainly to the Chinese domestic market. The coal sales from our Colombian operations, prior to disinvestment of our Colombian assets in June 2012 were directed mainly to Europe and South America. Coal from our Mozambique operations is directed for the main transoceanic coal markets, including Eastern Asia, Americas, Europe, and India.

1.2.4 Competition

The global coal industry, basically made up by the hard coal (metallurgical and thermal) and brown / lignite coal markets, is highly competitive.

The growing demand for steel, particularly in Asia, continues to promote a strong demand for metallurgical coal. Significant port and railroad limitations in some of the countries where our main providers are located may lead to a limited availability of additional metallurgical coal.

Competition in the coal industry is based mostly in production cost savings, coal quality, and transportation cost. Our main strong points are the geographical location of the current and future location of providers and production costs with regard to several other coal producers.

The main participants in the transoceanic market are subsidiaries and affiliates of BHP Billiton Mitsubishi Alliance (BMA), Xstrata plc (Xstrata), Anglo Coal, Rio Tinto, Teck Cominco, Peabody and Shenhua Group, and others.

1.3 Manganese ore and ferroalloys

1.3.1 Manganese ore production and operations

We conduct our manganese operations in Brazil through our wholly-owned subsidiaries Vale Manganês S.A. (Vale Manganês), Vale Mina do Azul S.A. and MCR. The Company's mines produce three types of manganese products:

- metallurgical ore used primarily in the production of ferroalloys;
- natural manganese dioxide, suitable for the manufacturing of electrolytic batteries; and
- chemical ore used in various sectors for the production of fertilizers, pesticides and animal feed, and is also used as pigment in the ceramics industry.

Table of Contents

Mining complex	Company	Location	Description / History	Mining	Operations	Power source	Access / Transportation
Azul	Vale Mina do Azul S.A.	Pará	Open pit mining operations and local processing plants.	High content ore (minimum manganese content of 40%)	Crushing, followed by classification, producing granulated and fine.	Power provided by the national power network, acquired from regional utility companies.	Manganese ore is carried in trucks and by EFC to Ponta da Madeira maritime terminal.
Morro da Mina	Vale Manganês	Minas Gerais	Open pit mining operations.	Low content ore (24% of manganese).	Crushing, followed by classification, producing granulated and fine for ferroalloy plants in Barbacena and Ouro Preto.	Power provided by the national power network, acquired from regional utility companies.	Manganese ore is carried in trucks to the ferroalloy plants in Barbacena and Ouro Preto.
Urucum	MCR	Mato Grosso do Sul	Underground mining operations and local processing plants.	High content ore (minimum manganese content of 40%)	Crushing, followed by classification, producing granulated and fine.	Power provided by the national power network, acquired from regional utility companies.	The manganese ore is carried to the Rosario port (Argentina) in barges through the Paraguai and Paraná rivers.

The table below presents information on our manganese production.

Mine	Type	Production during fiscal year ending December 31			Recovery rate (%)
		2010	2011 (million metric tons)	2012	
Azul	Open pit	1.6	2.1	1.9	66.0
Morro da Mina	Open pit	0.1	0.1	0.2	82.5
Urucum	Underground	0.2	0.3	0.3	84.0
Total		1.8	2.5	2.4	

1.3.2 Ferroalloy production and operations

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We conduct our ferroalloy businesses through our wholly-owned subsidiary Vale Manganês. Until October 2012, we also conducted ferroalloy and manganese operations in Europe through our wholly-owned subsidiaries Vale Manganèse France SAS and Vale Manganese Norway AS. These subsidiaries were sold in October 2012 to affiliates of Glencore International Plc for US\$160 million in cash.

The production of ferroalloys consumes significant amounts of power, representing 6.3% of our total consumption in 2012. The power supply for our ferroalloy plants is provided through long-term contracts.

We produce several types of manganese ferroalloys, such as high carbon and medium carbon manganese and ferro-silicon manganese.

Table of Contents

Plant	Location	Description / History	Nominal capacity	Power source
Minas Gerais Plants	Barbacena and Ouro Preto	Barbacena has 6 furnaces, refinery stations for medium carbon manganese and a crushing plant. Ouro Preto has 3 furnaces.	74,000 tons per year at the plant in Barbacena and 65,000 tons per year at the plant in Ouro Preto.	Power provided by the national power network. Power supplied by independent producers under long term agreements.
Bahia Plants	Simões Filho	4 furnaces, medium carbon manganese conversion process and one sintering plant.	150,000 tons per year	Power provided by the national power network. Power supplied by independent producers under long term agreements.

The table below presents information on our production of ferroalloys.

Plant	Production during fiscal year ending December 31		
	2010	2011	2012
	(thousand metric tons)		
Barbacena	71	67	65
Ouro Preto	62	61	62
Simões Filho	73	76	79
Total	207	204	206

1.3.3. Manganese ore and ferroalloys: market and competition

The markets for manganese ore and ferroalloys are highly competitive. Competition in the manganese ore market takes place in two segments. High-grade manganese ore competes on a global seaborne basis, while low-grade ore competes on a regional basis. For some ferroalloys, high-grade ore is mandatory, while for others high- and low-grade ores are complementary. The main suppliers of high-grade ores are located in South Africa, Gabon, Australia and Brazil. The main producers of low-grade ores are located in Ukraine, China, Ghana, Kazakhstan, India and Mexico.

The ferroalloy market is characterized by a large number of participants who compete primarily on the basis of price. The principal competitive factors in this market are the costs of manganese ore, power, logistics and reductants. We compete both with stand-alone producers and integrated producers that also mine their own ore. Our competitors are located mainly in countries that produce manganese ore or steel.

2. Basic Metals

2.1. Nickel

2.1.1. Operations

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We conduct our nickel operations mainly through our wholly-owned subsidiary Vale Canada, which operates two nickel production systems, one at the North Atlantic and one in Asia-Pacific. Our nickel operations are presented in the table below.

Mining System / Company	Location	Description / History	Operations	Mining license	Power source	Access / Transportation
<u>North Atlantic</u>						
Vale Canada	Canada Sudbury, Ontario	Integrated mining, crushing, smelting and refining operations to turn ore into refined nickel	Primarily underground operations with sulfate nickel with copper, cobalt, PGMs, gold, and nickel	Patented mining rights with no	Power provided by the national power	Located at the TransCanada road and two main railroads

Table of Contents

Mining System / Company	Location	Description / History	Operations	Mining license	Power source	Access / Transportation
		with nominal capacity of 66,000 metric tons of refined nickel per year and <i>feed</i> of nickel oxide to the refinery in Wales. Mining operations in Sudbury started in 1885. Vale acquired Sudbury upon acquiring Inco Ltd. in 2006.	silver deposits. The Frood mine (in Sudbury) was placed under repair and maintenance in October 2012. We also conduct smelting and refining of nickel concentrate at our operations in Voisey's Bay. We send an intermediate nickel product, nickel oxide, from our smelter in Sudbury to our nickel refinery in Wales to turn it into refined nickel.	expiration date; mining leases end in 2014 and 2032; and mining license with undetermined validity term.	network and produced directly by Vale.	cross Sudbury. Finished products are delivered to the North-American market by truck. For customers abroad, products are loaded in containers and travel in intermodal model (truck / train / cargo vessel) for ports in Canada's eastern and western coast.
Vale Canada	Canada Thompson, Manitoba	Integrated mining, crushing, <i>smelting</i> and refining operations to turn ore into refined nickel with nominal capacity of 45,000 metric tons of refined nickel per year. Thompson was discovered in 1956 and acquired by Vale upon acquiring Inco Ltd. in 2006.	Primarily underground operations with sulfate nickel. These resources also contain copper and cobalt deposits. We are considering placing the Birchtree mine under repair and maintenance. We also conduct smelting and refining of nickel concentrate at our operations in Voisey's Bay. We are considering eliminating <i>smelting</i> and refining processes in Thompson, due to the significant capital investment needed, according to federal rules of sulfur dioxide emissions to be in force in 2015 and less important priority of this project compared to other investment alternatives.	Application before competent authority matures between 2020 and 2025; mining leases end in 2013.	Power provided by public utilities at the province.	Finished products are delivered to the North-American market by truck. For customers abroad, products are loaded in containers and travel in intermodal model (truck / train / cargo vessel) for ports in Canada's eastern and western coast.
Vale Newfoundland & Labrador Limited	Canada Voisey's Bay, Newfoundland & Labrador	Open pit mine and ore processing into intermediate products nickel and copper concentrate. Voisey's Bay started operations in 2005 and was acquired by Vale upon acquiring Inco Ltd. in 2006.	Comprised by the Ovoid mine, an open pit mine and deposits with potential for underground operations at a later moment. We extract sulfate nickel ore, which also contain copper and cobalt	Mining concession end in 2027.	100% provided by Vale diesel generators.	Nickel and copper concentrates are carried to the port by truck and then are shipped.

deposits. Nickel concentrates are currently sent to our operations in Sudbury and Thompson, for final processing (smelter and refinery), while copper concentrate is sold in

Table of Contents

Mining System / Company	Location	Description / History	Operations	Mining license	Power source	Access / Transportation
			the market. Our Labrador nickel concentrate will be redirected to the Long Harbor plant when it is in operation.			
Vale Europe Limited	UK Wales	Clydach, Autonomous nickel refinery (producer of refined nickel), with nominal capacity of 40,000 metric tons per year. The Clydach refinery started operations in 1902 and was acquired by Vale in 2006.	Processes a nickel intermediate product nickel oxide, provided by operations in Sudbury or Matsuzaka to produce refined nickel as powder or pellets.		Power provided by the national power network.	Transported for the end customer in the United Kingdom and the continental Europe by truck. Products are sent to customers abroad by truck to the ports in Southampton and Liverpool.
<u>Asia-Pacific</u>						
PT Vale Indonesia Tbk (<u>PTVI</u> , formerly known as PT International Nickel Indonesia Tbk)	Indonesia Sorowako, Sulawesi	Open pit mine and processing plant (producer of matte nickel, and intermediate product) with nominal capacity of 80,000 metric tons per year. PTVI stock are traded at the Indonesia Stock Exchange. We hold 59.2% of its capital stock, Sumitomo Metal Mining Co., Ltd (<u>Sumitomo</u>) holds 20.3% and 20.5% are outstanding. PVTI started operations in 1968 and was acquired by Vale in 2006.	PTVI extracts lateritic nickel ore and produces matte nickel which is sent to our refineries in Japan. According to guaranteed sale agreements during the mine use life, PTVI sells 80% of its production to its wholly-owned subsidiary Vale Canada and 20% to Sumitomo.	The employment agreement ends in 2025, and is under negotiation with the Indonesian government.	Power produced directly by Vale. Great part is provided at low cost by three hydroelectric power plants in the Larona River. PTVI has thermal generators to complement its power supply with a power source that is not subject to hydrological factors.	Carried by truck for approximately 40 km to the river port, in Malili, and shipped in vessels to load cargo ships to send to Japan.

Table of Contents

Mining System / Company	Location	Description / History	Operations	Mining license	Power source	Access / Transportation
Vale Nouvelle-Calédonie S.A.S (<u>VNC</u>)	New Caledonia Southern Province	Mining and processing operations (producer of nickel oxide and cobalt carbonate). VNC shares are held by Vale (80.5%), Sumic (14.5%) and Société de Participation Minière du Sud Caledonien SAS (<u>SPMSC</u>) (5%). Sumic, a <i>joint venture</i> between Sumitomo and Mitsui, has the option to sell all its interest, by the lowest between (1) the net accounting value, according to French accounting rules, and (2) the market price, should VNC fail to reach specified production (60 days of continuous production with 80% of full capacity) by December 31, 2014. Sumic has also a buy option to 6.5% of dilution in December 2012 after commercial production at VNC. SPMSC must increase its share in VNC in 10% in up to two years after the start of commercial production.	Our nickel operations in New Caledonia are in <i>ramp-up</i> . VNC uses a high-pressure acid leaching process (<u>HPAL</u>) to handle lateritic limonitic and lateritic saprolitic ores. We expect a <i>ramp-up</i> in VNC in the next four years to reach nominal production capacity of 57,000 metric tons per year of nickel contained as nickel oxide, to be subsequently processed in our facilities in Asia, and hydroxide cake, and 4,500 metric tons of cobalt as carbonate.	Mining concession ending between 2016 and 2051.	Power supplied by the national power network and independent producers.	Products are carried into containers and transported by truck for approximately 4 km to the Prony port.
Vale Japan Limited	Japan - Matsuzaka	Autonomous nickel refinery (producer of refined nickel), with nominal capacity of 60,000 metric tons per year. Vale holds 87.2%, and Sumitomo holds the remaining stock. The refinery was built in	Produces intermediate products to be treated in our refineries in China, Korea, and Taiwan, and refined nickel products using matte nickel		Power provided by the national power network . Acquired from local utilities.	Products are transported by public roads to customers in Japan. For customers abroad, products are carried into containers in the plant and sent

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		1965 and acquired by Vale in 2006.	provided by PTVI.		through the Yokkaichi and Nagoya ports.
Vale Taiwan Ltd	Taiwan - Kaoshiung	Autonomous nickel refinery (producer of refined nickel), with nominal capacity of 18,000 metric tons per year. The refinery started operations in 1983 and was acquired by Vale in 2006.	Produces mainly refined nickel for the local stainless steel industry in Taiwan, using intermediate products from our operations in Matsuzaka.	Power provided by the national power network . Acquired from local utilities.	Products transported by truck on public roads for customers in Taiwan. For customers abroad, products are carried into containers at the plant and sent through the Kaoshiung port.

Table of Contents

Vale Nickel (Dalian) Co. Ltd	China - Dalian, Liaoning	Autonomous nickel refinery (producer of refined nickel), with nominal capacity of 32,000 metric tons per year. Vale holds 98.3% of shares and a Ningbo Sunhu Chemical Products Co., Ltd. holds the remaining 1.7%. The refinery started operations in 2008.	Produces mainly refined nickel for the local stainless steel industry in China, using intermediate products from our operations in Matsuzaka and New Caledonia.		Power provided by the national power network . Acquired from local utilities.	Product carried by truck on public roads and railroads for customers in China. Also transported by water in containers for some domestic customers.
Korea Nickel Corporation	South Korea Onsan	Autonomous nickel refinery (producer of refined nickel), with nominal capacity of 30,000 metric tons per year. Vale holds 25.0% of shares and remaining shares are held by Korea Zinc Co., Ltd, Posteel Co., Ltd, Young Poong Co., Ltd. and others. The refinery started production in 1989.	Produces mainly refined nickel for the local stainless steel industry in Korea, , using mainly intermediate products that contain about 75% of nickel (as nickel oxide) from our operations in Matsuzaka.		Power provided by the national power network . Acquired from local utilities.	KNC production is transported by truck in public roads for customers in Korea and is exported in containers for customers abroad, starting at the Busan and Ulsan ports.
<u>South Atlantic</u> Vale/Onça Puma	Brazil - Ourilândia do Norte, Pará	Mining and processing operations (ferro-nickel producer)	The Onça Puma mine is built over a nickel deposit of lateritic and saprolitic ore. We temporarily interrupted the <i>ramp-up</i> of project Onça Puma, in Ourilândia do Norte, in the Brazilian state of Pará, but we expect to resume production initially with one furnace in the second half of 2013 to reach nominal capacity of approximately	Mining concession for undetermined period.	Power provided by the national power network, acquired from regional utility companies or produced directly by Vale.	Ferro-nickel is transported by paved public road and by EFC to Itaqui maritime terminal, in the state of Maranhão.

25,000 metric
tons per year.
We expect to
build a second
furnace, to be in
operation in
2017.

Table of Contents

2.1.2 Production

The following table sets forth our annual mine production by operating mine (or on an aggregate basis for PTVI because it has mining areas rather than mines) and the average percentage grades of nickel and copper. The mine production at PTVI represents the product from PTVI's dryer kilns delivered to PTVI's smelting operations and does not include nickel losses due to smelting. For our Sudbury, Thompson and Voisey's Bay operations, the production and average grades represent the mine product delivered to those operations' respective processing plants and do not include adjustments due to beneficiation, smelting or refining. The following table sets forth information about ore production at our nickel mining sites.

	Production during fiscal year ending December 31								
	2010			2011			2012		
	(thousand metric tons, except percentages)								
	Grade		Grade		Grade		Grade		
Production	% Copper	% Nickel	Production	% Copper	% Nickel	Production	% Copper	% Nickel	
Ontario operating mines									
Copper Cliff North	326	1.13	1.13	892	1.15	1.03	792	1.09	0.92
Creighton	426	2.65	3.10	991	1.72	2.22	797	1.80	1.84
Stobie(1)	775	0.59	0.69	1,568	0.61	0.74	2,006	0.56	0.66
Garson	246	2.16	1.60	640	1.78	2.08	643	1.56	1.61
Coleman	786	2.74	1.73	1,363	3.02	1.77	1,062	2.58	1.51
Ellen	86	0.56	0.75	131	0.45	0.90	371	0.44	0.93
Totten	16	2.54	1.74	28	1.01	0.97	6	2.37	1.15
Gertrude							36	0.27	0.72
Total Ontario operations	2,660	1.78%	1.53%	5,612	1.61%	1.45%	5,714	1.29%	1.14%
Manitoba operating mines									
Thompson	1,325		1.83	1,182		1.76	1,160		1.86
Birchtree(2)	832		1.41	721		1.36	643		1.34
Total Manitoba operations	2,158		1.67%	1,903		1.61%	1,804		1.67%
Voisey's Bay operating mines									
Ovoid	1,510	2.44	3.20%	2,366	2.39%	3.38%	2,351	1.94%	3.11%
Sulawesi operating mining areas									
Sorowako	4,176		2.00%	3,848		1.95%	3,678		2.02%
Mine operations in New Caledonia									
VNC	326		1.31%	1,043		1.29%	1,179		1.27%
Mines in operation in Brazil									
Onça Puma	1,259		1.93%	1,466		1.86%	1,975		1.87%

(1) Frood mine (part of the Stobie mine) was set under repair and maintenance at the end of 2012.

(2) *The Birchtree mine is under consideration of being set in repair and maintenance.*

Table of Contents

The following table sets forth information about our nickel production, including: (i) nickel refined at our facilities, (ii) nickel further refined into specialty products, and (iii) intermediates designated for sale. The figures below are reported on an ore-source basis.

Mine	Type	Production for fiscal year ending December 31		
		2010	2011	2012
		(Thousands of metric tons)		
Sudbury (1)	Underground	22.4	59.7	65.5
Thompson (1)	Underground	29.8	25.0	24.2
Voisey s Bay(2)	Open pit	42.3	68.9	61.9
Sorowako (3)	Open pit	78.4	67.8	69.0
Onça Puma(4)	Open pit		7.0	6.0
New Caledonia (5)	Open pit		5.1	4.5
External (6)		5.9	8.0	5.9
Total(7)		178.7	241.5	237.0

-
- (1) Primary nickel production only (i.e., does not include secondary nickel from unrelated parties).
- (2) Includes finished nickel produced at our Sudbury and Thompson operations, as well as some finished nickel produced by unrelated parties under toll-smelting and toll-refining arrangements.
- (3) We have a 59.2% interest in PTVI, which owns the Sorowako mines, and these figures include the minority interests.
- (4) Primary nickel production only. Nickel found in iron nickel.
- (5) Primary nickel production adjusted for payable nickel value. Nickel found in NHC and NiO.
- (6) Finished nickel processed at our facilities using feeds purchased from unrelated parties.
- (7) These figures exclude external third-party material.

2.1.3. Clients and sales

Our nickel customers are broadly distributed on a global basis. In 2012, 51% of our total nickel sales were delivered to customers in Asia, 28% to North America, 19% to Europe and 2% to other markets. We have short-term fixed-volume contracts with customers for the majority of our expected annual nickel sales. These contracts generally provide stable demand for a significant portion of our annual production.

Nickel is an exchange-traded metal, listed on the London Metal Exchange (LME), and most nickel products are priced according to a discount or premium to the LME price, depending primarily on the nickel product s physical and technical characteristics. Our finished nickel products represent what is known in the industry as primary nickel, meaning nickel produced principally from nickel ores (as opposed to secondary nickel, which is recovered from recycled nickel-containing material). Finished primary nickel products are distinguishable according to the following characteristics, which determine the product price level and the suitability for various end-use applications:

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- Nickel content and purity level: (i) intermediate products with various levels of nickel content, (ii) nickel pig iron has 1.5% to 6% nickel, (iii) ferro-nickel has 10% to 40% nickel, (iv) finished nickel with less than 99.8% of nickel, including products such as Tonimet and Utility Nickel , (v) standard LME grade nickel has a minimum of 99.8% nickel, and high purity nickel has a minimum of 99.9% nickel and does not contain specific elemental impurities;

- Shape (such as pellets, discs, squares, strips and foams); and

- Size.

In 2012, the principal end-use applications for nickel were:

- Austenitic stainless steel (66% of global nickel consumption);

- Non-ferrous alloys, alloy steels and smelting (18% of global nickel consumption);

- Nickel plating (8% of global nickel consumption); and

- Specialty applications, such as batteries, chemicals and powder metallurgy (8% of global nickel consumption).

Table of Contents

In 2012, 67% of our refined nickel sales were made into non-stainless steel applications, compared to the industry average for primary nickel producers of 34%, offering better stability for our sales volumes. As a result of our focus on such higher-value segments, our average realized nickel prices for refined nickel have constantly exceeded LME cash nickel prices.

We offer sales and technical support to our customers on a global basis. We have a well-established global marketing network for refined nickel, based in Toronto, Canada. We also have sales and technical support offices in St. Prex (Switzerland), Saddle Brook, New Jersey (United States), Tokyo (Japan), Shanghai (China), Singapore, Kaohsiung (Taiwan), Bangkok (Thailand) and Bridgetown (Barbados).

2.1.4. Competition

The global nickel market is highly competitive. Our key competitive strengths include our long-life mines, our low production costs compared to other nickel producers, our sophisticated exploration and processing technologies, along with a diversified portfolio of products. Our global marketing reach, diverse product mix, and technical support direct our products to the applications and geographic regions that offer the highest margins for our products.

Our nickel deliveries represented 14% of global consumption for primary nickel in 2012. In addition to us, the largest suppliers in the nickel industry (each with their own integrated facilities, including nickel mining, processing, refining and marketing operations) are: Mining and Metallurgical Company Norilsk Nickel (Norilsk), Jinchuan Nonferrous Metals Corporation (Jinchuan), BHP Billiton, and Xstrata. Together with us, these companies accounted for about 51% of global finished primary nickel production in 2012.

While stainless steel production is a major driver of global nickel demand, stainless steel producers can use nickel products with a wide range of nickel content, including secondary nickel (scrap). The choice between primary and secondary nickel is largely based on their relative prices and availability. In recent years, secondary nickel has accounted for about 41-46% of total nickel used for stainless steels, and primary nickel has accounted for about 54-59%. Nickel pig iron is a low-grade nickel product made in China from imported lateritic ores (primarily from the Philippines and Indonesia) that is suitable primarily for use in stainless steel production. With nickel being sold at higher prices and a strong demand from the stainless steel industry, domestic production of nickel pig iron and low-content ferro-nickel has experienced ongoing growth in China. It is estimated that in 2012, Chinese production of nickel pig iron and ferro-nickel exceeded 300,000 metric tons, representing 20% of world primary nickel supply.

Competition in the nickel market is based primarily on quality, reliability of supply and price. We believe our operations are competitive in the nickel market because of the high quality of our nickel products and our relatively low production costs.

2.2. Copper

2.2.1. Operations

We operate our copper businesses in Brazil at the parent-company level and in Canada and Chile through our wholly-owned subsidiaries.

Table of Contents

Mining complex / Location	Location	Description / History	Mining / Operations	Mining License	Power source	Access / Transportation
<u>Brazil</u> Vale/Sossego	Carajás, State of Pará	Two main areas of copper, Sossego and Sequeirinho, and a processing unit to concentrate the ore. Sossego was developed by Vale and started production in 2004.	Copper ore is explored in an open pit mine and ROM is processed by primary crushing and transportation, SAG milling (a semiautogene mill using a large rotating drum full of ore, water and steel crushing spheres transform the ore into a fine paste), milling, copper fluctuation in concentrate, waste is disposed off, concentrate, discharge filter.	Mining concession for undetermined period.	Power provided by the national power network, acquired from Eletronorte, under long term agreements.	The concentrate is transported by truck to the storage terminal in Parauapebas and, subsequently, is taken by EFC to the Ponta da Madeira maritime terminal, in São Luís, Maranhão. We built an 85 km road connecting Sossego to Parauapebas.
Vale/Salobo	Carajás, State of Pará	Salobo I processing plant is in <i>ramp-up</i> to total capacity of 100,000 tpa of copper. We expect that Salobo will reach total capacity of 200,000 tpa in 2016, after expansion of Salobo II.	Our copper and gold mine in Salobo is an open pit mine and follows the same processing and transportation model adopted for Sossego.	Mining concession for undetermined period.	Power provided by the national power network, acquired from regional utility companies or produced directly by Vale.	The concentrate is transported by truck to the storage terminal in Parauapebas and, subsequently, is taken by EFC to the Ponta da Madeira maritime terminal, in São Luís, Maranhão. We built a 90 km road connecting Salobo to Parauapebas.
<u>Canada</u> Vale Canada	Canada Sudbury, Ontario	See Basic metals Nickel - Operations	We generate two intermediate copper products: copper in concentrate and copper anodes and cathodes of	See table of our nickel operations.		

electrolytic
copper as by
product of
nickel refining
operations.

Table of Contents

Vale Canada/Voisey s Bay	Canada Voisey s Bay, Newfoundland & Labrador	See Basic metals Nickel - Operations	At Voisey s Bay, we produce concentrate copper.	See table of our nickel operations
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<u>Chile</u>						
Tres Valles	Region of Coquimbo, Chile	Two copper oxide mines: Don Gabriel, open pit mine, and Papomono, an underground mine, as well as an SX-EW plant that produces copper cathodes. Vale holds 90.0% of the stocks and 100% of voting capital, the remaining part is held by Compañia Minera Werenfried.	We produce copper cathodes at the operation in Tres Valles, located in Salamanca, Coquimbo region. The plant has an annual production capacity estimate in 18,500 metric tons of copper cathode (metal plate) and this is our first cathode plant in industrial scale to use hydrometallurgical process.	Mining concession for undetermined period.	Power provided by the national power network.	We transport copper cathode by truck from the plant to storage at San Antonio port.

<u>Zambia</u>						
Lubambe	Zambian Copperbelt	Lubambe copper mine (formerly known as Konkola North), includes an underground mine, plant and related infrastructure. TEAL (our 50/50 joint venture with ARM) holds 80% interest in Lubambe, Zambia. Consolidated Copper Mines Investment Holding PLC Ltd. (20%).	Nominal production capacity of 45,000 metric tons per year of concentrate copper. Production started in October 2012.	Mining concessions end in 2033.	Long term power supply agreement with a Zesco (power supplier owned by Zambia).	Concentrate copper is transported by truck to local smelters.

Table of Contents2.2.2. *Production*

The following table provides information about our production of copper.

Mine	Type	Production during fiscal year ending December 31		
		2010	2011	2012
(million metric tons)				
Brazil:				
Salobo:	Open pit			13
Sossego	Open pit	117	109	110
Canada:				
Sudbury	Underground	34	101	79
Voisey's Bay	Open pit	33	51	42
Thompson	Underground	1	1	3
External (1)		22	31	29
Chile:				
Tres Valles	Open pit and underground		9	14
Zambia:				
Lubambe (2):	Underground			1
Total		207	302	290

-
- (1) We process copper at our facilities using third party resources.
- (2) Vale's attributable production capacity of 40%

2.2.3. *Clients and sales*

The copper concentrate from Sossego is sold under mid and long-term contracts executed with copper smelters in South America, Europe and Asia. We have long-term sale agreements to sell the entire first production phase of Salobo copper concentrate to smelters. We have long-term distribution agreements with Xstrata Copper Canada, to sell cathode copper and a significant part of copper concentrate produced in Sudbury. Copper concentrate from Voisey's Bay is sold through mid-term agreements with clients in Europe. Electrolytic copper from Sudbury is sold in North America through short-term sale agreement.

2.2.4. *Competition*

The copper global market is highly competitive. It is produced by mining companies and smelters worldwide; the customers are mostly producers of copper wires, rods and alloy. Competition takes place mostly at a regional level, and it is based mostly in production, quality, distribution reliability and logistics costs. The largest cathode copper producers in the world are Corporación Nacional del Cobre de Chile (Codelco), Aurubis AG, Freeport-McMoRan Copper & Gold Inc. (Freeport-McMoRan), Jiangxi Copper Corporation Ltd and Xstrata, operating

at the parent company level or through subsidiaries. Our participation in the global copper market is negligible.

Copper concentrate and copper anodes are intermediate products in the copper production chain. The concentrate and anode markets are competitive, with several producers, and fewer participants and smaller volumes than the cathode copper market due to the high levels of integration of large copper producers.

In the copper concentrate market, the main producers are mining companies located in South America, Indonesia, and Australia, while the consumers are smelters located in Europe and Asia. Competition in the copper concentrate market takes place mostly at a global level, and it is based mostly in product cost, quality, logistics costs and distribution reliability. Main competitors in the copper concentrate market are BHP Billiton, Freeport-McMoRan, Antofagasta plc, Anglo American, Rio Tinto and Xstrata, operating at a parent company level and through subsidiaries. Our market share in 2012 was approximately 4% of the total copper concentrate market.

The copper anode/blister market is very limited in the copper industry. In general, anodes are produced to supply the integrated refining of every company. Anode/blister trade is limited to facilities that have more smelting capacity than what the plant can handle or the financial situation regarding logistics costs is an

Table of Contents

incentive to purchase anodes from other smelters. The main competitors in the anode market are Codelco, Anglo American and Xstrata, operating at a parent company level or through its subsidiaries.

2.3. Aluminum

We hold 22% interest in Norsk Hydro ASA (Hydro), one of the main aluminum producers, which we account under the equity method. In the past we engaged in bauxite mining, alumina refining, and alumina *smelting* through subsidiaries in Brazil, interests we transferred to Hydro in February 2011. We continue to maintain a minor interest in MRN and Paragominas, bauxite mining companies located in Brazil, and that we also account for under the equity method. We will transfer the remaining interest in Paragominas to Hydro in two equal installments in 2014 and 2016.

2.4. PGM and other precious metals

As by-products of our Sudbury nickel operations in Canada, we recover significant quantities of metals of the platinum group, as well as small quantities of gold and silver. We also recover gold as a by-product of our operations in Salobo and Sossego, in Carajás, in Pará. We operate a processing facility in Port Colborne, Ontario, which produces PGMs, gold and silver intermediate products. We have a refinery in Acton, England, where we process our intermediate products, as well as feeds purchased from unrelated parties and toll refined products. In 2012, PGM concentrates from our Canadian operations account for 53% of our production, which also includes metals purchased from unrelated parties. Our base metal commercial department sells our PGMs and other precious metals, as well as products from unrelated parties and toll-refined products, based on commission.

In February 2013, we signed an agreement with Silver Wheaton to sell 25% of the gold produced as a byproduct at our copper mine in Salobo, in Brazil, during the mine life, and 70% if the gold produced as by product at our nickel mines in Sudbury, in Canada, in the next 20 years. For further information, see item 3.3 in this Reference Form.

The following table presents information on production of the Company's precious metals.

Mine (1)	Type	Production for fiscal year ending December 31		
		2009	2010	2011
(Thousand troy ounces)				
Sudbury:				
Platinum	Underground	35	174	134
Palladium	Underground	60	248	251
Gold	Underground	42	182	69
Salobo: Gold	Open pit			20
Sossego: Gold	Open pit	102	90	75

(1) Production figures exclude precious metals purchased from unrelated parties and toll-refined materials.

2.5. Cobalt

We recover significant quantities of cobalt, classified as a minor metal, as a by-product of our nickel operations. In 2012, we produced 1,284 metric tons of refined cobalt metal at our Port Colborne refinery and 606 metric tons of cobalt in a cobalt-based intermediate at our Thompson nickel operations in Canada, and our remaining cobalt production consisted of 452 metric tons of cobalt contained in other

Table of Contents

intermediate products (such as nickel concentrates). We expect to increase our production of intermediate cobalt as by-product of our nickel production, at the VNC operations, in New Caledonia, which is currently in ramp-up. We sell cobalt on a global basis. Our cobalt metal, which is electro-refined at our Port Colborne refinery, has very high purity levels (99.8%), value higher than specified in LME contract. Cobalt metal is used in the production of various alloys, particularly for aerospace applications, as well as the manufacture of cobalt-based chemicals.

The following table sets forth information on our cobalt production.

Mine	Type	Production for fiscal year ending December 31		
		2010	2011 (Metric tons)	2012
Sudbury	Underground	302	593	589
Thompson	Underground	189	158	96
Voisey's Bay	Open pit	524	1,585	1,221
New Caledonia	Open pit		245	385
External sources (1)		51	93	52
Total		1,066	2,675	2,343

(1) These figures do not include unrelated-party tolling of feeds for unrelated parties.

3. Fertilizers

3.1. Phosphates

We operate our phosphate business through our subsidiaries and joint ventures, as presented in the table below.

Firm	System	Our participation (%)		Our partners
		Voting	Total	
Vale Fertilizantes	Uberaba, Brazil	100.0	100.0	
MVM Resources International, B.V	Bayóvar, Peru	51.0	40.0	Mosaic, Mitsui & Co.
Vale Cubatão	Cubatão, Brazil	100.0	100.0	

Vale Fertilizantes is a company that produces phosphate rock, phosphate fertilizers (P), (e.g. monoammonium phosphate (MAP), dicalcium phosphate (DCP), triple superphosphate (TSP) and single superphosphate (SSP)) and nitrogen (N) fertilizers (e.g., ammonium nitrate and urea). It is the largest producer of phosphate and nitrogen crop nutrients in Brazil. Vale Fertilizantes operates the following phosphate rock mines by means of concessions for undetermined term: Catalão, in the state of Goiás, Tapira and Patos de Minas and Araxá, in the state of Minas Gerais, and Cajati, in the state of São Paulo, all in Brazil. In addition, Vale Fertilizantes has ten processing plants for the production of phosphate and nitrogen nutrients located in Catalão, Goiás; Araxá, Patos de Minas, and Uberaba, in Minas Gerais; Guará, Cajati, and three plants in Cubatão, in Sao Paulo, and Araucaria, in Parana. In December 2012, we signed an agreement with Petrobras to sell the operations of Araucária for US\$ 234

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million, subject to specific conditions, including approval by CADE.

In addition to Vale Fertilizer's phosphate and nitrogen operations, since 2010, we also operate the Bayovar phosphate rock, in Peru, which should achieve a nominal production capacity of 3.9 million Mtpa in 2014 and is operated by means of concessions for undetermined term.

The following table contains information regarding Vale's phosphate rock production.

Mine	Type	Production for fiscal year ending December 31		
		2010	2011 (million metric tons)	2012
Bayóvar	Open pit	791	2,544	3,209
Catalão	Open pit	626	947	1,026
Tapira	Open pit	2,068	2,011	2,068
Patos de Minas	Open pit	43	44	44
Araxá	Open pit	1,182	1,231	1,084
Cajati	Open pit	545	582	550
Total		5,255	7,359	7,982

Table of Contents

The following table contains information regarding our production of phosphate and nitrogen nutrients.

Product	Production for fiscal year ending December 31		
	2010	2011 (million metric tons)	2012
Monoammonium phosphate (MAP)	898	823	1,201
Triple superphosphate (TSP)	788	811	913
Single superphosphate (SSP)	2,239	2,638	2,226
Bicalcium phosphate (DCP)	491	580	511
Ammonia	508	619	475
Urea	511	628	483
Nitric acid	454	468	478
Ammonium Nitrate	447	458	490

3.2. Potash

We conduct potash operations in Brazil at the parent-company level, by means of mining concessions for undetermined term. We entered a leasing agreement for Taquari-Vassouras, the only potash mine in Brazil (in Rosario do Catete, in the state of Sergipe), with Petrobras since 1992. In April 2012, we extended the concession for other 30 years.

The following table sets forth information on our production of potash:

Mine	Type	Production for fiscal year ending December 31			Recovery rate (%)
		2010	2011 (Thousands of metric tons)	2012	
Taquari-Vassouras	Underground	662	625	549	85.9

3.3. Clients and sales

All sales from the Taquari-Vassouras mine are to the Brazilian market. In 2012, our production represented close to 6.9% of total potash consumption in Brazil. We have a presence and long-standing relationships with the major players in Brazil, with more than 60% of our sales allocated to four traditional clients.

Our phosphate products are sold mainly to the fertilizer industry.

In 2012, our production represented near 34.9% of the total phosphate consumption in Brazil, with imports representing a 49.9% of total supply. In the high concentration segment, Vale supplied over 33% of total consumption in Brazil, with products such as MAP, and TSP. In the low phosphate concentration nutrients segment, our production represented near 38.2% of total consumption in Brazil with SSP and DCP products.

3.4. *Competition*

The sector is divided into three major groups of nutrients: potash, phosphate and nitrogen. There are limited resources of potash around the world with Canada, Russia and Belarus being the most important suppliers, each one with a small number of producers.. The sector presents a high level of investment and requires long time for a project to mature,. In addition, the potash segment is highly concentrated, with 10 major producers holding over 94% of the total global production capacity. While potash is a scarce

Table of Contents

resource, phosphate is more available, but all major exporters are located in the northern region of Africa (Morocco, Algeria and Tunisia) and in the United States. The five major producers of phosphate rock (China, Morocco, United States, and Russia) hold 76% of global production, of which around 10% is exported. Meanwhile, products with great added value, such as MAP and DCP are usually marketed instead of phosphate rock, due to cost-benefit relationship.

Brazil is one of the largest agribusiness markets in the world due to its high production, exportation and consumption of grains and biofuel. It is the fourth-largest consumer of fertilizers in the world and one of the largest importers of phosphates, potash, urea and phosphoric acid. Brazil imports 93% of its potash, which corresponds to 6.88 Mtpa of KCL (potassium chloride) in 2012, 2.6% less than in 2011 from Canadian, Belarusian, German, Israelis, and Russians, in descending order. In terms of global potash consumption, China, the United States, Brazil, and India represent approximately 59% of global consumption, where Brazil is responsible for 16% of this total. Our fertilizer projects are highly competitive in terms of cost and logistics in the Brazilian market.

Most phosphate rock concentrate is consumed locally by downstream integrated producers, while logistics with the seaborne market correspond to 17% of total phosphate rock production. Major phosphate rock exporters are concentrated in North Africa, mainly through state-owned companies, with the Moroccan OCP Group holding 34% of the total seaborne market. Brazil imports 50% of the total phosphate nutrients it needs in both phosphate fertilizer products and phosphate rock. The phosphate rock imports supply non-integrated producers of phosphate fertilizers such as SSP, TSP and MAP.

Nitrogen-based fertilizers are basically derived from ammonia (NH₃), which, in turn, is produced from the nitrogen that is present in the air and in natural gas, making it a nutrient with high level of energy. Ammonia and urea are the main consumables of nitrogen based fertilizers. The consumption of nitrogen-based fertilizers presents a regional profile due to the high cost associated with transportation and storage of ammonia, which requires refrigerated and pressurized facilities. Consequently, only 12% of ammonia produced in the world is traded. North America is the largest importer, with 35% of the global market. Major exporters are Central America, Russia, East Europe, and the Middle East.

4. Infrastructure

4.1. Logistics Services

We have developed our logistics business based on the transportation needs of our mining operations, while we also provide transportation services for other customers. We conduct our logistics businesses at the parent-company level, through subsidiaries and joint ventures, as set forth in the following table.

Firm	Business	Location	Our participation		Partners
			Voting (%)	Total	
Vale	Port, maritime and railroad operations (EFVM e EFC).	Brazil			
VLI		Brazil	100.0	100.0	

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Port, maritime and
 railroad operations and
 land terminals. Holding
 specific cargo assets.

FCA(1)	Railroad operations.	Brazil	99.9	99.9	
FNS (1)	Railroad operations	Brazil	100.0	100.0	
MRS	Railroad operations	Brazil	46.8	47.6	CSN, Usiminas and

Table of Contents

Firm	Business	Location	Our participation		Partners
			Voting	Total	
			(%)		
CPBS	Port, maritime and railroad operations	Brazil	100.0	100.0	Gerdaul
PTVI PTV	Port, maritime and railroad operations	Indonesia	59.2	59.2	Sumitomo, public investors
Vale Logística Argentina	Maritime operations.	Argentina	100.0	100.0	
CEAR(2)	Railroad.	Malawi	43.4	43.4	Mozambique, P.E. ports and railroads
CDN(3)	Maritime and railroad operations.	Mozambique	43.4	43.4	Mozambique, P.E. ports and railroads
CLIN	Maritime and railroad operations	Mozambique	80.0	80.0	Mozambique, P.E. ports and railroads
Vale Logistics Limited	Railroad operations.	Malawi	100.0	100.0	
Transbarga Navigación	River system in Paraguai and Paraná rivers (Comboios).	Paraguay	100.0	100.0	
VNC	Port and maritime operations.	New Caledonia	80.5	80.5	Sumic, SPMSC

(1) Vale holds controlling shareholder of FCA and FNS through VLI.

(2) Vale holds control of its participation in CEAR through 85% interest in SDCN.

(3) Vale holds control of its participation in CDN through 85% interest in SDCN.

We created the subsidiary VLI S.A. (VLI) to conduct our general cargo business, including our interest in FCA and FNS, use rights of railroad transportation capacity in our railroads EFVM and EFC and other logistics assets. VLI provides integrated logistics solutions through 10,540 km of railroads (FCA, FNS, EFVM, and EFC), four land terminals with total storage capacity of 220,000 tons, three maritime terminals and port operations. In 2012, VLI transported a total of 28.1 billion tku of general cargo, including 14.8 billion tku of FCA and FNS and 13.3 billion tku under operational agreements with Vale. We are studying the possibility of seeking one or more capital investors to offer external funding for VLI capital needs as counterpart to shareholding interest in the company. Should this operation be concluded, we expect to maintain shareholding control or significant influence on VLI.

4.1.1. Railroads

- *Brazil*

- Vitória a Minas railroad (EFVM) The EFVM railroad links our Southeastern System mines in the Iron Quadrangle region in the state of Minas Gerais to the Tubarão Port, in Vitória, in the state of Espírito Santo. We operate this 905-kilometer railroad under a 30-year renewable concession, which expires in 2027. The EFVM railroad consists of two lines of track extending for a distance of 601 kilometers to permit continuous railroad travel in opposite directions, and single-track branches of 304 kilometers. Industries are located in this area and major agricultural regions are also accessible to it. The EFVM railroad has a daily capacity of 342,000 metric tons of iron ore. In 2012, the EFVM railroad carried a total of 74.3 billion ntk of iron ore and other cargo, of which 67.0 billion ntk, or 90%, consisted of cargo transported for

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customers, including iron ore for Brazilian customers. The EFVM railroad also carried 0.9 million passengers in 2012. On December 31, 2012, we had a fleet of 322 locomotives and 19,111 wagons at EFVM.

- Carajás railroad (EFC). The EFC railroad connects our mines in the Northern System in the Carajás region in the state of Pará to the maritime terminal Ponta da Madeira, in São Luís, in the state of Maranhão. We operate the EFC railroad under a 30-year concession, which expires in 2027. EFC extends for 892 kilometers from our mines in Carajás to our Ponta da Madeira maritime terminal complex facilities located near the Itaqui Port. Its main cargo is iron ore,

Table of Contents

principally carried mainly for the Company. The railroad has a daily capacity of 311,707 metric tons of iron ore. In 2012, the EFC railroad carried a total of 103.3 billion ntk of iron ore and other cargo, 3.5 billion ntk of which was cargo for customers, including iron ore for Brazilian customers. EFC also carried 360,367 passengers in 2012. EFC supports the largest capacity train in Latin America, which measures 3.4 kilometers, weighs 41,640 gross metric tons when loaded and has 330 cars. In 2012, EFC had a fleet of 247 locomotives and 14,975 wagons.

- Centro-Atlântica railway (FCA) Our affiliate FCA operates a central-east regional railway network of the Brazilian national railway system under a 30-year renewable concession, which expires in 2026. The central east network has 8,023 kilometers extending into the states of Sergipe, Bahia, Espírito Santo, Minas Gerais, Rio de Janeiro and Goiás and Brasília, the Federal District of Brazil. It connects with our EFVM railroad near the cities of Belo Horizonte, in the state of Minas Gerais and Vitória, in the state of Espírito Santo. FCA operates on the same track gauge as our EFVM railroad and provides access to the Santos Port in the state of São Paulo. In 2012, the FCA railroad transported a total of 12.4 billion ntk of cargo essentially for customers. In 2012, FCA had a fleet of 494 locomotives and 10,535 wagons.

- Norte-Sul railway (FNS). We were granted with a renewable 30-year subconcession for commercial operation of a 720-kilometer stretch of the FNS railroad, in Brazil. Since 1989, we have operated a segment of the FNS, which connects to the EFC railroad, enabling access to the port of Itaquí, in São Luís, where our Ponta da Madeira maritime terminal is located. A 452-kilometer extension was concluded in December 2008. In 2012, the FNS railroad transported a total of 2.37 billion ntk of cargo for customers. This new railroad creates a new corridor for the transportation of general cargo, mainly for the export of soybeans, rice and corn produced in the center-northern region of Brazil. In 2012, FNS had a fleet of 38 locomotives and 587 wagons.

The principal items of cargo of the EFVM, EFC, FCA and FNS railroads are:

- Iron ore and iron ore pellets, carried for the Company and our customers;
- Steel, coal, pig iron, limestone and other raw materials carried for customers with steel mills located along the railroad;
- Agricultural products, such as grains, soybean meal and fertilizers; and
- Other general cargo, such as building materials, pulp, fuel and chemical products.

We charge market prices for customer freight, including iron ore pellets originating from joint ventures and other enterprises in which we do not have 100% equity interest. Market prices vary based on the distance traveled, the type of product transported and the weight of the freight in question, and are regulated by the Brazilian transportation regulatory agency, ANTT (Agência Nacional de Transportes Terrestres).

- MRS Logística S.A. (MRS) The MRS railroad is 1,643 kilometers long and links the Brazilian states of Rio de Janeiro, São Paulo and Minas Gerais. In 2012, the MRS railroad carried a total of 155.42 million metric tons of cargo, including 68.76 million metric tons of iron ore and other cargo from Vale.

- *Argentina*

On August 24, 2010, through our subsidiary, Potasio Rio Colorado S.A., we entered into an agreement with Ferrosur Roca, S.A. for a partial concession, subject to government authorization, of an administrative concession of a 756 km railroad. This concession is important to support the potash Project in Rio Colorado. In March 2013, we suspended the Rio Colorado project in Argentina, as circumstances and current conditions of the project would not offer results aligned with our commitment with discipline in capital allocation and value creation. We will honor our commitments related to concessions and we will analyze the alternatives to improve project perspectives and later evaluate the possibility of resuming.

Table of Contents

- *Africa*

We are developing the Nacala logistic corridor, to connect Moatize to the Nacala-à-Velha maritime terminal, located in Nacala, Mozambique. In July 2012, our subsidiary Corredor Logístico Integrado de Nacala (CLIN) entered into two concession agreements with the Government of Mozambique regarding a greenfield railroad and a new port for coal, to be part of the Nacala Corridor. In December 2011, our subsidiary Vale Logistics Limited (VLL) signed a concession agreement with the government of the Republic of Malawi for a 137 kilometer railroad to be built from Chikawa to Nkaya in Malawi. The concessions in Malawi and Mozambique will allow the Moatize expansion and facilitate the creation of a world-class logistics infrastructure supporting our operations in Central and East Africa. We will invest in the expanding the capacity of the Nacala Corridor through the rehabilitation of existing railroad tracks in Mozambique and in Malawi, under control of the Corredor de Desenvolvimento do Norte S.A. (CDN) and the Central East African Railway Company Limited (CEAR), both subsidiaries of the Sociedade de Desenvolvimento Corredor Nacala, SA (SCDN), which holds 51% interest in each one. We will also invest in the construction of necessary tracks in Moatize to a new deep water maritime terminal to be built in Nacala-à-Velha by CLIN. We continue to consider partnerships to future use and possible development of the Nacala Corridor.

4.1.2. Ports and maritime terminals

- *Brasil*

We operate a port and maritime terminals principally as means to allow the delivery of our iron ore and pellets to bulk carrier vessels serving the seaborne market. We also use our port and terminals to handle customers' cargo. In 2012, 10% of the cargo handled by our port and terminals represented cargo handled for customers.

- Tubarão Port. The Tubarão Port, which covers an area of 18 square kilometers, is located near the Vitória Port, state of Espírito Santo, and contains three maritime terminals we operate: (i) an Iron Ore Maritime Terminal, (ii) the Praia Mole Terminal, and (iii) the Terminal de Produtos Diversos. The Iron Ore Maritime Terminal has two piers. Pier I can accommodate two vessels at a time, one of up to 170,000 DWT on the southern side and one of up to 200,000 DWT on the northern side. Pier II can accommodate one vessel of up to 400,000 DWT at a time, limited at 20 meters draft plus tide. In Pier I there are two ship loaders, which can load up to a combined total of 26,700 metric tons per hour. In Pier II there are two ship loaders that work alternately and can each load up to 16,000 metric tons per hour. In 2012, 102.6 million metric tons of iron ore and pellets were shipped through the terminal. The iron ore maritime terminal has a storage capacity of 3.4 million metric tons. Praia Mole Terminal is principally a coal terminal and handled 9.2 million metric tons in 2012. See Additional Information - Legal actions. Terminal de Produtos Diversos handled 6.8 million metric tons of grains and fertilizers in 2012.

- Ponta da Madeira maritime terminal. The Ponta da Madeira maritime terminal is located near the Itaquí Port, state of Maranhão. Pier I can accommodate vessels displacing up to 420,000 DWT and has a maximum loading rate of 16,000 tons per hour. Pier II can accommodate vessels of up to 155,000 DWT and has a maximum loading rate of 8,000 tons per hour. Pier III, with two berths and three shiploaders, can accommodate vessels of up to 220,000 DWT on the south berth and 180,000 DWT on the north berth and has a maximum loading rate of 8,000 metric tons per hour in each shiploader. Pier IV can accommodate vessels displacing up to 420,000 DWT and has a maximum loading rate of 16,000 tons per hour. Cargo shipped through our Ponta da Madeira maritime terminal consists principally of our own iron ore production. Other cargo includes manganese ore produced by Vale and pig iron and soybeans for unrelated parties. In 2012, 105.35 million metric tons of iron were handled through the terminal. The Ponta da Madeira maritime terminal has a storage capacity of 6.2 million metric tons, to be expanded to 7.4 million metric tons.

Table of Contents

- Itaguaí maritime terminal - Cia. Portuária Baía de Sepetiba (CPBS). CPBS is a wholly owned subsidiary that operates the Itaguaí terminal, in the Sepetiba Port, state of Rio de Janeiro. Itaguaí s terminal has a pier that allows the loading of ships up to 18 meters of draft and up to 200,000 DWT. In 2012, the terminal loaded approximately 22.9 million metric tons of iron ore.
- Guaíba Island maritime terminal. We operate a maritime terminal on Guaíba Island in the Sepetiba Bay, in the state of Rio de Janeiro. The iron ore terminal has a pier that allows the loading of ships of up to 350,000 DWT. In 2012, the terminal loaded 39.7 million metric tons of iron ore.
- Inácio Barbosa maritime terminal (TMIB). We operate the Inácio Barbosa maritime terminal, located in the Brazilian state of Sergipe. The terminal is owned by Petrobras. Vale and Petrobras are parties into an agreement that allows Vale to operate this terminal until December 2013. Currently, the parties have been negotiating extension of this agreement. In 2012, 1.1 million metric tons of oil coke, fertilizers, and agricultural products were shipped through TMIB.
- Santos Maritime Terminal (TUF). We operate a maritime terminal in Santos, state of Sao Paulo. The terminal has a pier equipped to receive ships of up to 67,000 DWT. In 2012, the terminal moved 2.6 million metric tons of ammonia and bulk solids, in line with 2011.
- *Argentina*

Vale Logistica Argentina S.A. (Vale Logistica Argentina) operates a terminal at the San Nicolas port located in the province of Buenos Aires, Argentina, where it has been authorized to store 20,000 square meters until October 2016 and has executed an agreement with unrelated parties to store additional 27,000 square meters. We handled 1.7 million metric tons of iron ore and manganese through this port in 2012, from Corumbá, Brazil, through the Paraná and Paraguay rivers to be transported to Asian and European markets. The loading rate at this port is 15,000 tons per day and unloading rate of 11,000 tons per day.

- *Indonesia*

PTVI owns and operates two ports in Indonesia to support its nickel mining activities.

The Balintang Special Port is located in Balintang Village, South Sulawesi, and has two types of piers with total capacity of 6,000 DWT: one barge skidder of up to 4,000 DWT for bulk dry volume and a dock for general cargo of up to 2,000 DWT.

The Harapan Tanjung Mangkasa Special Port is located in Harapan Tanjung Mangkasa Village, South Sulawesi, with armoring buoys that can accommodate vessels displacing up to 20,000 DWT, and a terminal that can accommodate fuel tankers with displacing up to 2,000 DWT, with

total capacity of 22,000 DWT.

- New Caledonia

We have and operate a port in Prony Bay, Province Sud, New Caledonia. This port has three terminals, including a passenger boat terminal for two vessels of up to 50 meters, a dock for dry bulk material for vessels of up to 55,000 DWT to unload at 10,000 tons a day and a general cargo dock for vessels of up to 215 meters. The general cargo dock can receive containers at 10 units per hour, liquid fuels (GPL, BPF,

Table of Contents

diesel) at 600 cubic meters per hour, and *break-bulk*. The containers patio, a covered area of about 13,000 square meters, can receive up to 800 units. A bulk storage patio is linked to the port by a belt with storage capacity of 90,000 tons of limestone, 95,000 tons of sulfur and 60,000 tons of coal.

4.1.3. *Navigation*

We continue to develop and operate a low cost fleet of vessels, comprised of company-owned vessels and leased vessels through mid and long-term lease agreements, to support our bulk material businesses. In the end of 2012, we had a fleet of 25 vessels, of which 11 Valemax vessels, with capacity of 400,000 DWT, and 14 capesize vessels and up, with capacities varying between 150,000 to 250,000 DWT. We are expecting the delivery of additional eight Valemax vessels from Chinese and Korean providers. To support our strategy to deliver iron ore, Vale holds and operates a floating transfer station in the Subic Bay, the Philippines, that transfers iron ore from VLOCs to smaller vessels that deliver the cargo to its destination. We expect that this service improve our ability to offer our iron ore products to the Asian market at competitive prices and to increase our market share in the Chinese market and the global seaborne market. In 2012, we carried 121.5 million metric tons of iron ore and pellets on CFR basis.

In August 2012, we sold 10 *large ore carriers* to Polaris for US\$600 million. We had acquired these vessels in 2009 and 2010 and we converted them from oil tanks to mining vessels, each with approximate capacity of 300,000 DWT, in order to have a fleet of vessels to be used to carry iron ore to our customers. The vessels were licensed for freight by Vale under long term agreements, preserving Vale's capacity of maritime transportation of iron ore with no operating or property risks.

On the Paraná and Paraguay fluvial system, we transport iron ore and manganese through our subsidiary, Transbarge Navigacion, which transported by rivers 1.0 million tons in 2012 and our subsidiary, Vale Logística Argentina, which loaded 1.0 million tons of ore though the port of San Nicolas in seaborne vessels in 2012. In 2010, we also purchased two new convoys (two tugboats and 32 barges) which will start operating in 2013.

We also operate a fleet of 24 tugboats in maritime terminals in Brazil, specifically in Vitória, state of Espírito Santo; Trombetas and Vila do Conde, state of Pará; São Luís, state of Maranhão; Mangatiba, state of Rio de Janeiro, and Aracaju, state of Sergipe.

4.1.4. *Energy*

We have developed our energy assets based on the current and projected energy needs of our operations, with the goal of reducing energy costs and minimizing the risk of energy shortages.

- *Brazil*

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Energy management and efficient supply in Brazil are priorities for us, given the uncertainties associated with changes in the regulatory environment, and the risk of rising electricity prices. In 2012 our total installed energy capacity in Brazil was 1.1 GW. We use the electricity produced by these plants for our internal consumption needs. We currently have nine hydroelectric power plants in operation. The hydroelectric power plants of Igarapava, Porto Estrela, Funil, Candonga, Aimorés, Capim Branco I, Capim Branco II and Machadinho are located in the Southern and Southeastern areas and the Estreito plant is located in the Northern area.

In June 2011, we acquired 9.0% of the stocks in Norte Energia S.A. (NESA), a company which sole purpose is the deployment and operation of the Belo Monte Hydroelectric Plant, in Pará. Our interest in NESA entitles us to purchase 9% of the power generated by the plant.

- *Canada*

In 2012, our hydroelectric power plants in Sudbury generated 11% of the electricity requirements of our Sudbury operations. The power plants consist of five separate generation stations with an installed

Table of Contents

capacity of 56 MW. The output of the plants is limited by water availability, and by restrictions imposed by a water management plan regulated by the Government of the Province of Ontario. Over the course of 2012, the average requirements for power was 196 MW to all surface plants and mines in the Sudbury area.

In 2012, diesel generation provided 100% of the electric requirements of our Voisey's Bay operations. We have six diesel generators on-site, of which normally only four are in operation, producing an average of 12 MW.

- *Indonesia*

Energy costs are a significant component of our nickel production costs for the processing of saprolitic lateritic ores at PTVI operations in Indonesia. A great portion of the PTVI's electric furnace power requirements are supplied at low-cost by its three hydroelectric power plants on the Laron River: (i) the Laron plant with average generation capacity of 165 MW, (ii) the Balambano plant with average generation capacity of 110 MW; and (iii) the Karebbe plant with average generation capacity of 90 MW. The Karebbe plant helps reducing the costs by replacing the diesel used in power generation for hydroelectric power, reducing CO₂ emissions by replacing non-renewable power generation, and helping to increase current nickel production capacity in Indonesia.

5. Other Investments

Vale owns 50% of capital stock of California Steel Industries, Inc. (CSI), a producer of flat rolled steel and pipes, located in the United States. The remaining 50% belongs to JFE Steel. CSI's annual production capacity is of about 2.8 million metric tons of flat rolled steel and pipes.

We hold a 26.9% stake in ThyssenKrupp Companhia Siderúrgica do Atlântico (TKCSA), an integrated producer of steel plates located in the state of Rio de Janeiro. The plant was commissioned on the third quarter in 2010, and produced 3.4 Mt in 2012. The plant will have final production capacity of 5.0 Mtpa and will require 8.5 million metric tons per year of iron ore and pellets, supplied exclusively by Vale.

We are also engaged in three other steel projects in Brazil, Companhia Siderúrgica do Pecém (CSP), approved by our Board of Directors, as well as Aço Laminados do Pará (Alpa) and Companhia Siderúrgica Ubu (CSU), both in the initial development stages.

We hold 31.3% of the capital in Log-In, that operates intermodal logistic services. Log-In offers port services and maritime container transportation and container storage. The company operates with own vessels or leased vessels for merchants navigation, a container terminal (Terminal Vila Velha - TVV) and multimode terminals. In 2012, the merchant navigation system of Log-In transported 198,565 twenty-two feet equivalent units (teus) and TVV moved 267,510 teus.

We also have an onshore and offshore hydrocarbon exploration portfolio in Brazil, currently under review.

e. Key consumables and raw materials:

i. Description of the relationships with suppliers, including whether they are subject to governmental control or regulation, identifying the institutions and applicable legislation

We are committed to build a sustainable business model and contribute to a just, environmentally balanced and economically prosperous society. We adopt the strategy in relation to our suppliers to maintain a long-term relationship in order to promote partnerships aimed at gains for both parties, through continuous innovation and development and supply of goods and quality services at a compatible cost.

In order to achieve continuous improvement and contribute to advances in the production chain, the management of relationships with our suppliers comprises the following steps:

Table of Contents

- (i) supplier classification based on our values, taking into account also the identification and analysis of supply risks (environmental, institutional, labor, social security, financial, health and safety, ethics, and social responsibility);
- (ii) *Third party Due Diligence*, process to run a search on third parties that have transactions with Vale, contributing to mitigate, without limitation, reputation risks, engagement with slavery work and other events that violate anticorruption laws applicable to Vale, as the *Foreign Corrupt Practices Act - FCPA* and the *UK Bribery Act* ;
- (iii) periodic performance evaluations to ensure compliance with applicable requirements and as defined in the contracting stage, as well as adherence to agreement expectations;
- (iv) Development and support in suppliers training; and
- (v) Promotion and prospection of new suppliers.

Under the UN's Universal Declaration of Human Rights, we respect and promote human rights in our activities, through our production chain and in regions where we operate.

In this sense, we aim to establish commercial relationships with suppliers who share our principles and values and who respect human rights.

Our principles and values are disclosed to our suppliers in our Suppliers Code of Ethical Conduct, document signed by all the companies that supply to Vale.

All the companies, when invited to supply products / services to Vale, are subject to a search in the list of companies disclosed at the website of the Ministry of Labor and Employment (MTE) that includes companies and individuals fined for engagement in children's labor, degradation labor or similar to slavery and the list CEIS (National Registry of Suspected Companies) that lists companies with no good standing and suspended by the federal government.

The guidelines and criteria we adopt to evaluate our suppliers are based on the above mentioned environmental legal requirements applicable to suppliers whose operational processes involve the use of natural resources or are potentially polluting or likely to cause environmental degradation. In addition to these legal aspects, our Environmental Management criteria and the principles of our Sustainable Development Policy are considered.

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With regard to recipients of waste generated in our production processes, they all are subject to audit by the Department of the Environment and Sustainable Development during their initial approval and periodic revalidation.

The main environmental laws applicable to this process are:

a) Environmental Permit

- Federal Law 6938/81 - National Environmental Policy
- CONAMA Resolution (National Council for the Environment) 237/97
- CONAMA Resolution (National Council for the Environment) 01/86.
- Federal Law 10165/00
- IBAMA (Brazilian Institute of Renewable Natural Resources) Normative Instructions 96/06 and 97/06.

b) Pesticides

- Federal Law 7802/99
- Federal Decree 4047/02
- Law 6360/76 - ANVISA - National Agency for Sanitary Surveillance

Table of Contents

c) Transportation of Dangerous Goods

- Decree 96044/88
- ANTT Resolution (National Ground Transportation Agency) 420/02

d) Radioactive Material

- CNEN Resolution (National Nuclear Energy Council) NE 2.01
- CNEN Resolution (National Nuclear Energy Council) NE 5.02

e) Explosive Materials

- Federal Decree 3665/00

f) Controlled Chemicals

- Ministry of Justice Decree 1274/2003.

ii. Potential dependence on few suppliers

The main consumables purchased by us in 2012 were: (i) materials and other equipment, including tires, conveyor belts, parts and components, mining equipment, railroad gear, industrial installations and maintenance workshops, which accounted for 16% of cost of goods sold (COGS) in 2012, (ii) fuel and gas, which contributed 8% to COGS, and (iii) electricity with 3% of COGS. Moreover, the rendering of various services, such as operational services, maintenance of equipment and facilities, and transportation services represented 18% of COGS in 2012.

The main categories of equipment purchased by the supply department were handling, infrastructure, transportation and locomotive equipment. Our largest suppliers of these types of equipment in 2012 were METSO, CATERPILLAR/SOTREQ, GE TRANSPORTATION, accounting jointly for 4% of total purchases of the company.

Fuel consumption is quite intense, especially in operations and transport of iron ore, located in Brazil. Our main supplier of this consumable item is Petrobras Distribuidora, which accounted for approximately 86% of our purchase of fuels in 2012. In 2012, we used 68% of the electricity provided by self-production and the remaining portion was consumed through purchase of power in the market, which main suppliers were Cemig, Eletronorte, and Tractebel.

Our 10 largest input, equipment and service providers in 2012 represented 15% of our total purchases.

iii. Possible volatility in their prices

We have some contracts where prices are pegged to market indexes (parametric formulas) and therefore subject to these volatilities. Prices can also vary in relation to historical prices depending on offer versus demand in the market at the time of competition.

7.4 Customers that accounted for more than 10% of total net revenues

In 2012, no customers accounted for more than 10% of our net revenue.

7.5 Relevant effects of state regulation on the Company's activities

a. *Need for government authorization for the exercise of activities and long-standing relationship with the government to obtain such permits*

We are subject to a wide range of governmental regulations in all jurisdictions where we operate worldwide. The following discussion summarizes the regulations that have the most significant impact on our operations.

Mining rights

In order to conduct mining activities, we generally require some governmental permits, which differ in form depending on the jurisdiction but may include concessions, licenses, prospecting applications, permits, releases or franchises (all of which we refer to below as "concessions"). Some concessions have indefinite duration or duration linked to depletion of the reserve, but many have specific expiration dates, and may be renewable or not. The legal and regulatory regime governing concessions differs among

Table of Contents

jurisdictions, often in important ways. For example in many jurisdictions, including Brazil, mineral resources belong to the state and may only be extracted under concession. In other jurisdictions, including Canada, a substantial part of our mining operations is conducted pursuant to mining rights or leases, often from government agencies.

The table below summarizes our principal mining concessions and other similar rights. In addition to the concessions described below, we have exploration licenses covering 6.07 million hectares in Brazil (out of which, 4.39 million are already under application) and 12.4 million hectares in other countries.

Location	Concession or other right	Approximate area covered (in thousand hectares)	Expiration date
Brazil	Exploration Concession	660.715	Undetermined
Canada	Exploration Concession (name varies according to the province)	275.764	2013-2033
Indonesia	Employment Agreement (<i>Contract of Work</i>)(1)	190.510	2025
Australia	Exploration Concession (<i>Mining concessions</i>)	19.200	2015-2041
New Caledonia	Exploration Concession (<i>Mining concessions</i>)	21.269	2015-2051
Peru	Exploration Concession (<i>Concesión de Exploración</i>)(2)	153.968	Undetermined
Argentina	Exploration Concession (<i>Manifestación de Descubrimiento</i>)	167.073	Undetermined
Chile	Exploration Concession (<i>Concesión de Explotación</i>)	64.697	Undetermined
Mozambique	Exploration Concession (Mining Concession) (3)	23.780	2032
Guinea	Exploration Concession (Mining Concession)	102.400	2035

(1) Work Contract of our mines in Indonesia expire in 2025. Meanwhile, according to the new Mining Law, we will be entitled to request, at least, a 10 year extension.

(2) The above represents merely licenses with exploration concession.

(3) Our mining concessions cover approximately 23,780 hectares. Land licenses granted by the Council of Ministries, required to explore and use our concession currently encompass 22,096 hectares. Another license granted by local authorities in Moatize cover 961 additional hectares.

Many concessions impose specific obligations on the concessionaire governing such matters as how operations are conducted and what investments are required. Our ability to maintain our mining rights depends on meeting these requirements, which often involve significant capital expenditures and high operating costs.

Table of Contents

Regulation of mining activities

- In Brazil, the federal government plans to propose changes to the Mining Code, which, if adopted, may have important implications on Brazil's mining operations or may require additional investments.
- In Indonesia, a mining law became effective in 2009, introducing a new licensing regime (*Ijin Usaha Pertambangan*, or IUP) and requiring some adjustments and final replacement of current mining agreements with the government of Indonesia. Deployment of the regulations has been gradually issued by the government, and we expect new regulations to be issued. In September 2012, PTVI started to renegotiate the Contract of Work, as determined by the 2009 mining law. The government of Indonesia intends to adjust the area size, the term and the amendment means of the agreement and financial obligations (royalties and fees) and seek to introduce internal processing and refining requirements, as well as property requirements, to allow the use of internal services and products. PTVI presented its position on each of these aspects, and the negotiation conclusion is expected to December 2013. In 2012, the government of Indonesia also established a new tax regime for exporting activities related to gross minerals and approved a new regulation for the 2009 law that creates a requirement of disinvestment for foreign companies holding IUPs licenses. Under this regulation, foreign companies holding IUPs should gradually reduce their interest in mining operations, to a maximum limit of 49% in the tenth production year. The government of Indonesia also approved a regulation that forbids exporting gross mineral to those holding IUPs and the requirement of domestic processing and the construction of refineries by 2014. PTVI currently holds two IUP licenses subject to these requirements and regulations and is evaluating the impact on its operations.
- In New Caledonia, a mining law was passed in March 2009 which states that for new mining projects, formal authorization is required, rather than a simple declaration. Our license application (which replaces the 2005 declaration) was submitted in April 2012 and the entities might take up to three years to issue the authorization. Our current license will remain valid and in force until the application is approved. Although we believe it is unlikely that the authorization application will be rejected, the governmental entities may impose new conditions regarding the authorization.
- In Guinea, a new Mining Code adopted in 2011 imposes on all the iron ore mining projects a requirement that the government holds 15%, for free, and allows the government to acquire an additional 20% interest. The new mining code also introduced stricter requirements for all mining companies with operations in Guinea, including requirements related to mining tax, customs, employment requirements, qualification, training, transparency, and anticorruption actions. Additionally, the Government of Guinea set a contractual review procedure for purposes of adapting current mining contracts to the new mining code. According to regulations adopted by the government, the contractual review procedure may result in cancellation or renegotiation of mining rights, depending on the evaluation and recommendations by the technical committee responsible for the contractual review procedure. The mining project of our subsidiary in Guinea is currently under review by the technical committee, that started a comprehensive investigation on the conditions under which mining rights of our subsidiary in Guinea were granted and have been exercised prior and after our investment in the project. Until the review procedure is concluded and the legal uncertainty related to the application of the new mining code to current projects is clarified, there are no conditions to determine how and to what extent our subsidiary in Guinea will be affected. Our subsidiary decided recently to suspend operations in Guinea until regulation uncertainties that affect the project are solved.
- In Mozambique, the government concluded a new proposal for the mining code in December 2012, which should be subject to Parliament approval. Changes expected for the new code include introduction of national acquisition prevalence, submitting transfers of mining rights and shareholding interest to local legislation and governmental approval, requiring foreign companies to make partnerships with local service providers and reduce terms for exploration activities. Additionally, a new regulation for reoccupations, issued in June 2012, contains stricter requirements that may cause increase in costs and delays to deploy our projects.

Table of Contents

Environmental regulations

We are subject to environmental regulations that apply to the specific types of mining and processing activities we conduct. We require approvals, licenses, permits or authorizations from governmental authorities to operate, and in most jurisdictions the development of new facilities requires submission of environmental impact statements for approval and often to make additional investments to mitigate environmental impacts. We must also operate our facilities in compliance with the terms of the approvals, licenses, permits, or authorizations.

We are adopting measures to improve effectiveness of the licensing process, including better integration between environmental and project development teams, the development of the Best Practices Guide for Environmental Licensing, deployment of highly qualified expert teams, better integration with environmental regulators and the creation of an Executive Committee to issue license-related internal decisions.

Environmental regulations affecting company operations relate, among other matters, to emissions into the air, soil and water; recycling and waste management; protection and preservation of forests, coastlines, natural caverns, watersheds and other features of the ecosystem; water use, climate change and decommissioning and reclamation.

Environmental legislation is becoming stricter worldwide, which could lead to greater costs for environmental compliance. In particular, there is an expectation for heightened attention from various governments to reducing greenhouse gases, as result of concerns with climate changes. There are several examples of environmental regulations and compliance initiatives that may affect our operations. In Canada and in Indonesia, we are currently making significant capital investments to ensure compliance with regulations on gas emissions that include, without limitation, sulfur dioxide, particle s and metals. In Australia, starting in June 2013, we expect to start receiving permits according to a recently introduced carbon pricing scheme that initially will operate as a carbon tax, with fixed (but increasing) price.

Royalties and other taxes on mining activities

In many jurisdictions, we must pay royalties or fees on our revenues or profits from extraction and sale of minerals. These payments are an important element in the economic development of a mining operation. The following royalties and fees apply in some of the jurisdictions in which we have our largest operations:

- **Brazil.** In Brazil, we pay a royalty known as the CFEM (Compensação Financeira pela Exploração de Recursos Minerais or Financial Compensation for Exploration of Mineral Resources) on the revenues from the sale of minerals we extract, net of taxes, insurance costs and costs of transportation. The current annual CFEM rates on Company products are: 2% for iron ore, copper, nickel, fertilizers and other materials; 3% on bauxite, potash and manganese ore; and 1% on gold. The Brazilian government is considering proposing changes in the CFEM regime. Any change should be incorporated into the final proposal by DNPM, and should be subject to the approval of the Brazilian National Congress. We are currently engaged in several administrative and legal proceedings, that relate to the non-payment of amounts due as CFEM. See item 4.3 in this Reference Form for further information.

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- Brazilian States. Brazilian states of Minas Gerais and Pará introduced a mining production tax (Taxa de Fiscalização de Recursos Minerais [Mining Resources Supervision Tax] TRFM) in December 2011. In 2012, these states deployed changes to the legislation which reduced amounts payable, according to the TRFM (i) from R\$6.906 to R\$2.302 per metric ton of mineral produced in the State of Pará, and (ii) from R\$2.3291 to R\$0.9316 per metric ton transferred or sold in the State of Minas Gerais. Vale paid the TRFM due in 2012. The Brazilian industry Association (Confederação Nacional da Indústria [National Industry Association] CNI) currently argues the constitutionality of the TRFM imposed by Minas Gerais and Pará before the Federal Supreme Court. Should the claim be accepted, we believe the TRFM might be dismissed. In December 2012, a similar TRFM was created by the State of Mato Grosso do Sul, and we are currently evaluating the possibility to make a claim against it.

- Canada. The Canadian provinces in which we operate charge us a tax on profit from mining operations. Profit from mining operations is generally determined by reference to gross revenue from

Table of Contents

the sale of products of mine output and deducting certain costs, such as mining and processing costs and investment in processing assets. The rates are 10% in Ontario; up to 17% in Manitoba; and a combination of mining fee and royalties equal to 16% in Newfoundland and Labrador. The mining fee paid is deductible for corporate income tax purposes.

- **Indonesia.** Our subsidiary PTVI pays royalties on, without limitation, nickel production on the concession area. The payment of royalties was based on sales volume (US\$78 per metric ton of nickel in matte, and US\$ 140 per metric ton for total production below 500 tons and US\$ 156 per metric ton for total production above 500 tons of contained cobalt, above or below 500 tons, respectively). In 2012, the payment of royalties corresponded to 0.54% of the revenue from the sale of matte nickel, while the annual average of royalties paid for the 2009-2012 period corresponded to 0.63% of the revenue from the sale of matte nickel, including the payment of additional royalties in 2011 for the production above 160 mlbs in 2010.
- **Australia.** In Australia, royalties are paid on the revenues from sales of minerals. In the state of Queensland, royalty applicable to coal is 7% of the amount (net of freight, shipping costs, and other costs) up to A\$100 per ton and 12.5% of the amount between A\$100 and A\$150 per ton and 15% for higher amounts. In the state of New South Wales, the royalty applicable to coal is the percentage on the production's total revenue (which is net of specific expenses and fees) minus allowed deductions, equal to 6.2% for deep underground mines, 7.2% for underground mines, and 8.2% for open pit mines. There is also an additional 1.95% royalty (for coal recovered between December 1, 2012 and June 30, 2013) and 1% (for coal recovered after July 1, 2013) from the value of recovered coal (less the mineral resource rent tax (MRRT)) for a party holding a mineral lease that pays an MRRT installment during the relevant period. In 2012, the Australian government introduced a mineral resource rent tax, MRRT, to be applied on the profits generated from the exploration of coal and iron ore resources in Australia. The tax will apply at an effective fee of 22.5% of the taxable profits and will be deductible for corporate income tax purposes. The difference between the MRRT and royalties paid to each state government is that royalties are calculated based on the volume and value of resources, whereas MRRT is calculated on profits. However, companies will receive a credit for state royalties based on where MRRT is to be paid. For the year ending on December 31, 2012, Vale Australia did not have to pay any MRRT.

Regulation of other activities

In addition to mining and environmental regulation, we are subject to comprehensive regulatory regimes for some of our other activities, including rail transport, port operations, and electricity generation. We are also subject to workers' health and safety legislation, safety and support of communities near mines, and other matters. Descriptions below relate to some regulatory regimes applicable to our operations:

- **Brazilian railroad regulation.** Our railroad business in Brazil operates pursuant to concession contracts signed with the federal government and our concession contracts are subject to the regulation and supervision by the National Agency of Land Transportation (Agência Nacional de Transportes Terrestres), or ANTT. Our concession contracts are effective for 30 years and may be renewed at discretion of the federal government. The FCA and MRS concessions expire in 2026, and the concessions for EFC and EFVM expire in 2027. We also own the subconcession for commercial operation of a 720-kilometer segment of the FNS railroad, in Brazil, that expires in 2037. Prices we ask may be negotiated directly with users of such services, subject to fee limits approved by ANTT for each of the concessionaires each of different products that are transported. ANTT regulations also require concessionaires to operate under shared rights (mutual traffic and right of passage) with other concessionaires, make investments in the railroads, meet specific productivity requirements, and other obligations. In January 2012, ANTT

Table of Contents

altered the fee regulation for railroad concessionaires and reduced the limit. These changes did not significantly affect our agreements.

- **Regulation of Brazilian ports.** Port operations in Brazil are subject to the regulation and supervision of the National Agency of Aquatic Transportation - ANTAQ, the national agency responsible for maritime transportation, and SEP, the Port Special Secretary. In December 2012, a provisional order approved by the Brazilian government established new rules for new projects and existing terminals. This measure removed certain restrictions on unrelated party cargo movement and created the possibility of having ANTAQ determine access to unrelated parties to private terminals, contrary to the previous regime. Although the measure became immediately in effect, it still needs to be confirmed by the Brazilian Congress, that may reject it, amend it, or approve it.
- **Regulation of chemical products.** Some of our products are subject to regulations applicable to the marketing and distribution of chemicals and other substances. For example, the European Commission has adopted a European Chemicals Policy, known as REACH (Registration, Evaluation, and Authorization of Chemicals). Under REACH, manufacturers and importers will be required to register new substances prior to their entry into the European market and in some cases may be subject to an authorization process. A company that fails to comply with the REACH regulation could face restrictions to commercialize its products in Europe. We have complied with registration requirements for the substances imported into or manufactured in the EU in 2012 and we continue to take measures to manage our exposure to the authorization process.

b. Environmental policy of the Company and costs incurred for compliance with environmental regulation and, where appropriate, other environmental practices, including adherence to international standards of environmental protection

Vale's Environmental Management System determines the development of effective monitoring, conservation, environmental protection and rehabilitation, aimed at ensuring the maintenance and recovery of ecosystems in which it operates. Our system is based on ISO 14001 (*International Organization for Standardization*) guidelines, to which it adds additional features that make up our standard of environmental quality. Aiming to assess the management and ensure the development of performance, we submit various operations, periodically, to internal and external audits.

Listed below are our units with ISO 14001:

- Iron ore and pellets (all iron ore mines and the Tubarão and Fábrica pelletizing plants);
- Manganese and ferroalloys (Azul, Conselheiro Lafaiete, and Morro da Mina);
- Nickel (Vale Europe Limited, Taiwan Nickel Refining Corporation, Vale Japan Limited, Korea Nickel Co. and Vale Nickel Dalian Co. Limited (VNDC));

- Port of Tubarão; and
- Copper (Sossego mine).

In many cases, we operate with higher levels of environmental requirements than is legally required. To run the Environmental Management System, we disbursed US\$ 7 million in the last three years.

Our systems and control equipment, such as the storage and spraying of water on the roads, besides the use of chemical powder inhibitors or installation of filters and electrostatic precipitators in facilities, are complemented by comprehensive monitoring systems and control software.

Table of Contents

As a mining company, the control of air emissions is one of our main goals. Besides complying with all legal requirements, we continuously evaluate the air quality of our facilities and their effects on surrounding communities, and make the necessary investments to improve air quality.

Regarding improvement of water quality, we make every effort to treat and control pollutants discharged into the sea, rivers and other water bodies, and run a comprehensive water recycling program for water used in our operations. We are constantly researching new processes and technologies to improve the use, recycling and treatment of water. Through our comprehensive system of waste treatment and removal of debris, we seek greater control of generation and disposal of residues in order to create opportunities for reuse, recycling and reducing waste.

Our guidelines for decommissioning mines describe a complete set of guidelines, including practical and technical procedures to be followed during closure of the mines. The handbook outlines the procedures for monitoring and recovery of degraded areas, the main steps and sequence to be obeyed during the closure and other liabilities that may eventually arise out of the closure of the mine. The manual also provides standardized basic criteria, based on the guidelines of the CVM and the SEC (FAS 143), for cost evaluation, budgeting for the present, future decommissioning and restoration.

The waters of the mine, waste dams and waste rock deposits are classified according to a risk matrix involving all the parameters related to construction, operation and safety control. A complete audit program has been established which can evaluate the stability of these structures and provide elements for the preparation, if necessary, of plans for corrective or preventive action.

Our environmental program also includes restoration projects aimed at (i) protecting the soil against erosion, (ii) building impact reducers between their activities and the communities in surrounding areas and (iii) maintaining biodiversity through recovery of the ecosystem. We have partnerships with universities and governmental research agencies to conduct extensive research on methods of protecting the ecosystem.

We conduct extensive studies on fauna and flora, to minimize the environmental risks associated with investments in potentially sensitive areas. We take part in the conservation of Brazilian ecosystems, leaving some land untouched and protecting some private land. We also participate in the preservation of federal lands located in areas of environmental conservation, called protected areas and develop and support research in the field of biodiversity. Over the past 25 years we have offered support to indigenous communities in education, health, infrastructure development and technical assistance to improve the quality of life and self-sufficiency of these communities.

c. Reliance on patents, trademarks, licenses, concessions, franchises, contracts, royalties for the development of relevant activities.

We operate mines, railways, ports, marine terminals and power plants, in general, through concessions granted by federal and state governments in several countries. Accordingly, we depend greatly on the concession of operating licenses for such assets for the development of our activities. For more information on our permits and concessions, see item 9.1 b of this form.

Furthermore, we believe our many patents are fundamental in achieving the goals of research and technological development and our major brand Vale is of great importance for the development of their activities.

7.6 Relevant revenue from abroad

Fiscal year December 31, 2012

Revenue from customers attributed to:	Revenue (R\$ thousands)	% In total income of the Company
China	34,684,142	37.1%
Japan	9,609,267	10.3%
United States	2,592,667	2.8%
Germany	5,716,773	6.1%
Canada	1,973,318	2.1%
South Korea	4,103,399	4.4%
Taiwan	1,754,830	1.9%
England	1,954,205	2.1%
France	1,300,194	1.4%
Belgium	503,511	0.5%
Other countries	11,512,020	12.3%
Total income from abroad	75,704,326	81.0%
Brazil	17,805,150	19.0%
Total income	93,509,476	100.0%

Table of Contents

7.7 Effects of foreign regulations on activities

For information on the effects of foreign regulations on our activities see item 7.5 in this Reference Form.

7.8 Relevant long-term relationships

Sustainability Report

The company publishes a sustainability report available at <http://www.vale.com>>Sobre a Vale>Relatório de Sustentabilidade.

7.9 Other information the issuer deems relevant

No further relevant information about this item 7.

Table of Contents**8.1 -Description of the Economic Group****a. direct and indirect controllers**

Valepar S.A. is a holding company that has direct control of Vale, with a participation of 32.4% of the capital stock. Valepar is controlled by: (i) Litel Participações S.A., a holding company (50.38%); (ii) Bradespar S.A., a holding company (17.17%); (iii) Mitsui & Co., Ltd, a trading company (15.15%); (iv) BNDES Participações S.A., a holding company (9.81%); and (v) Eletron S.A., a holding company (0.02%).

Litel Participações S.A. is a holding company controlled by BB Carteira Ativa (79.00%), an investment fund, administered by BB Gestão de Recursos Distribuidora de Títulos e Valores Mobiliários S.A., whose shares are 100% owned by Previ Caixa de Previdência dos Funcionários do Banco do Brasil (Previ). Previ is a closed, private pension fund and its participants are employees of the Banco do Brasil and of Previ itself. Previ management is divided between the Advisory Board and the Board of Directors. The Board of Directors is composed of six members: President, Director of Administration, and Directors for Investments, Social Security, Share Participation, and Planning. The Advisory Board is composed of six members and their substitutes. Three are elected by the participants and users of the pension fund, and three others are indicated by the Banco do Brasil. According to the Charter of Previ, the Advisory Board is the highest body of the organizational structure of Previ and responsible for defining the general policy for the administration of the entity.

Bradespar S.A. is a holding company controlled by: (i) Cidade de Deus Companhia Comercial de Participações S.A., a holding company (12.93%); (ii) NCF Participações S.A., a holding company (9.33%); and (iv) [sic] Fundação Bradesco, a non-profit entity with the objective of providing education and professional training for children, youths, and adults (5.20%). The Cidade de Deus Companhia Comercial de Participações S.A. is controlled by: Nova Cidade de Deus Participações S.A., a holding company (44.91%); Fundação Bradesco (33.20%), and Mmes. Lina Maria Aguiar (8.51%) and Lia Maria Aguiar (7.01%). NCF Participações S.A. is controlled by: Fundação Bradesco (60.41%); Cidade de Deus Companhia Comercial de Participações S.A. (39.51%); and Nova Cidade de Deus Participações S.A. (0.08%). Nova Cidade de Deus Participações S.A. is controlled by Fundação Bradesco (73.93%) and BBD Participações S.A. (26.07%). BBD Participações S.A. has its capital dispersed among multiple shareholders, and NCD Participações S.A. is the largest of them, with 20.10% of the total share capital. In accordance with the terms of the Statute of the Fundação Bradesco, all Directors of Bradesco, members of the Board of Directors and directors of departments, as well as all directors and leaders of Cidade de Deus Companhia Comercial de Participações S.A., act as members of the Fundação Bradesco board of trustees, known as the Mesa Regedora.

Mitsui & Co., Ltd is a trading company, headquartered in Japan, which has its capital spread among many shareholders, but whose largest shareholders are the following Japanese banks: (i) the Master Trust Bank of Japan, Ltd. (trust account) with 8.22% of the share capital; and (ii) Japan Trustee Services Bank, Ltd. (trust account) with 5.87% of the share capital.

BNDES Participações is a holding company 100% owned by Banco Nacional de Desenvolvimento Econômico e Social (BNDES). BNDES is a federal public company endowed with legal personality under private law, whose shares are 100% owned by the Federal Government.

Eletron S.A. is a holding company controlled by Opportunity Anafi Participações S.A. (99.97%), a holding company controlled by Belapart S.A. (38.47%), Opportunity Holding FIP (23.06%), and Valetron S.A. (38.47%). Belapart S.A. and Valetron S.A. [sic] are corporate holding

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companies controlled by Ms. Verônica Valente Dantas, who owns 51% of the total share capital of each of the above-mentioned companies. Opportunity Holding FIP is an equity investment fund with the Fund Manager, Mr. Marco Nascimento Ferreira, responsible for its investment decisions.

b. subsidiaries and affiliates

c. participation of the Company in companies of the group

Vale controls or holds relevant participation, under the corporate law in force and according to the case, in the following companies (for a detailed description of the subsidiaries and affiliates of the Company which carry out relevant activities for the business of Vale, see Item 9 of this Reference Form):

Table of Contents

Aceros Del Orinoco

Aços Laminados do Pará S.A.

Aegis Indemnity Ltd.

Anyang Yu Vale Yongtong Pellet Co., Ltd.

Araucária Nitrogenados S.A.

Associação Brasileira dos Investidores em Auto Produção de Energia - ABIAPE

Associação Instituto Tecnológico Vale - ITV

Associação Itakyra

Associação Memorial Minas Gerais Vale

Associação Museu Ferroviário Vale do Rio Doce - AMFVRD

Associação Vale para Desenvolvimento Sustentável - Fundo Vale

Australian Coal Inter Holdings (NL) I B.V.

Baldertonn Trading Corporate

Baovale Mineração S.A.

Belcoal Pty Ltd

Belvedere Australia (BP) PTY Ltd

Belvedere Coal Management Pty Ltd. (ACN 112 868 461)

Belvedere JV (Unincorporate)

Biopalma da Amazônia S.A. - Reflorestamento Indústria e Comércio

Bowen Central Coal JV (Unincorporate)

Bowen Central Coal Pty Limited - (ACN107 198 676)

Bowen Central Coal Sales Pty Limited - (ACN 107 201 230)

Broadlea Coal Management Pty Limited - (ACN 104 885 994)

Broadlea JV (Unincorporate)

Caemi Holdings GmbH

California Steel Industries, Inc.

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Camberwell Coal Pty Limited - (ACN 003 825 018)

Canico Resources Corp.

Carborough Downs Coal Management Pty Ltd. - (ACN 108 803 461)

Carborough Downs Coal Sales Pty Limited - (ACN 108 803 470)

Carborough Downs JV (Unincorporate)

Central Eólica Garrote Ltda.

Central Eólica Santo Inácio III Ltda.

Central Eólica Santo Inácio IV Ltda.

Central Eólica Santo Inácio V Ltda.

Central Eólica Santo Inácio VI Ltda.

Central Eólica São Raimundo Ltda.

Charlotte, Ltd

Charlotte Unit Trust

CI Vale Colombia SAS

Corredor Logístico Integrado de Nacala S.A. - CLN

CMM Overseas Limited

Compagnie Minière Trois Rivières - CMTR

Companhia Coreano-Brasileira de Pelotização - KOBRASCO

Companhia Ferro-Ligas do Amapá S.A. - CFA

Companhia Hispano-Brasileira de Pelotização - HISPANOBAS

Companhia Italo-Brasileira de Pelotização - ITABRASCO

Companhia Nipo-Brasileira de Pelotização - NIBRASCO

Companhia Paulista de Ferro-Ligas - CPFL

Companhia Portuaria Baía de Sepetiba - CPBS

Companhia Siderúrgica Ubu

Companhia Usina Tecpar

Compañía Minera Andino-Brasileira Ltda - CMAB

Compañía Minera Miski Mayo S.Ac.

Consórcio AHEFunil

Consórcio AHE Porto Estrela

Consórcio BM-ES-22-A

Consórcio BM-ES-27

Consórcio BM-PAMA-10

Consórcio BM-PAMA-11

Consórcio BM-PAMA-12

Consórcio BM-S-48

Consórcio BT-PN-2

Consórcio BT-PN-3

Table of Contents

Consórcio Candonga

Consórcio Capim Branco Energia - CCBE

Consórcio da Hidrelétrica de Aimorés

Consórcio da Usina Hidrelétrica de Igarapava

Consórcio de Rebocadores da Baía de São Marcos - CRBSM

Consórcio de Rebocadores da Barra dos Coqueiros - CRBC

Consórcio Eólico Paraíso Azul - CEPАЗ

Consórcio Eólico Paraíso Farol - CEPAF

Consórcio Estreito Energia - CESTE

Consórcio Gesai - Geração Santa Isabel

Consórcio Machadinho

Consórcio Railnet

Consórcio SF-T-80

Consórcio SF-T-81

Consórcio SF-T-82

Consórcio SF-T-83

Consórcio SF-T-93

Consórcio Tup Mearim - Graneis Sólidos

Copperbelt (B) Inc.

Corredor do Desenvolvimento do Norte SRL - CDN

CPP Participações S.A

CSP - Companhia Siderúrgica do Pecém

Cubatão Fertilizer B.V.

CVRD Venezuela S.A.

Docepar S.A.

Eagle Downs Coal Management PTY Ltd

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Eastern Star Resources PTY Ltd - ESR

Ellensfield Coal Management Pty Ltd. - (ACN 123 542 754)

Empreendimentos Brasileiros de Mineração S.A. - EBM

Empresa de Mineração Curuá Ltda.

Exide Group Incorporated

Ferrovia Centro-Atlântica S.A. - FCA

Ferrovia Norte Sul S.A

Ferteco Europa S.à.r.l

Fertilizantes Participações S.A

Florestas Rio Doce S.A

Fortlee Investments Limited

Fosbrasil S.A

Fundação Brasileira para o Desenvolvimento Sustentável

Fundação Caemi de Previdência Social

Fundação Estação do Conhecimento Moçambique

Fundação Vale

Fundação Zoobotânica de Carajás

GEVALE Indústria Mineira Ltda.

Glennies Creek Coal Management Pty Ltd. - (ACN 097 768 093)

Glennies Creek JV (Unincorporate)

Globalore PTE Ltd

Goro Funding, LLC

GREMBER - Grêmio dos Empregados da MBR

Henan Longyu Energy Resources Co. Ltd.

IFC - Indústria de Fosfatados Catarinense Ltda

Infostrata S.A

Instituto Ambiental Vale - IAV

Integra Coal JV (Unincorporate)

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Integra Coal Operations Pty Ltd. - (ACN 118 030 998)

Integra Coal Sales Pty Ltd. - (ACN 080 537 033)

Internacional Iron Company. Inc - IICI

Isaac Plains Coal Management Pty Ltd. - (ACN 114 277 315)

Isaac Plains Coal Sales Pty Ltd. - (ACN 114 276 701)

Isaac Plains JV (Unincorporate)

Kaolin Overseas Limited

Kaserge Serviços Gerais Ltda. - KSG

Kobrasco International Trading Co. Ltd. - KOBIN

Korea Nickel Corporation

Table of Contents

Liquifer Siderurgia Ltda.

LOG-IN Logística intermodal S.A.

LOG-IN Mercosur

Maitland Main Collieries Pty Ltd. - (ACN 000 021 652)

MBR Overseas Ltd.

Minas da Serra Geral S.A. - MSG

Mineração Corumbaense Reunida S.A. - MCR

Mineração Dobrados S.A. Indústria e Comércio

Mineração Guanhães Ltda.

Mineração Guariba S.A.

Mineração Japurá Ltda.

Mineração Manati LTDA

Mineração Mato Grosso S.A

Mineração Ocirema Indústria e Comércio Ltda

Mineração Paragominas S.A

Mineração Rio do Norte S.A. - MRN

Mineração Zarzuela Ltda

Minerações BR Holding GmbH

Minerações Brasileiras Reunidas S.A. - MBR

Minérios Metalúrgicos do Nordeste S.A. - MMN

Monticello Insurance Ltd.

MRS Logística S.A

MS Empreendimentos e Participações Ltda. - MSEP

MSE - Serviços de Operação, Manutenção e Montagens Ltda.

Multiplex Resource (Kazakhstan) Limited - MRK

MVM Resources International B.V

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Mystery Lake Nickel Mines Limited

Nebo Central Coal Pty Ltd - (ACN 079 942 377)

NORPEL - Pelotização do Norte S.A

Norsk Hidro ASA

Norte Energia S.A. (NESA)

NSW Coal Resources Pty Ltd - (ACN 077 459 735)

Pineland Timber Company Limited

Ponta Ubu Agropecuária Ltda

Porto Norte S.A.

Potássio Rio Colorado S.A. - PRC

Prairie Potash Mines Limited

Prony Nickel S.A.S.

PT Vale Eksplorasi Indonesia

PT Vale Indonesia Tbk

Qld Coal Holdings Pty Ltd - (ACN 081 724 129)

Railvest Investments Inc

Rio Doce Amsterdam BV

Rio Doce Australia Pty Ltd

Rio Doce International S.A

Salobo Metais S.A

Samarco Mineração S.A.

SDCN - Sociedade de Desenvolvimento do Corredor de Nacala S.A.R.L

Seamar Shipping Corporation

Shandong Yankuang International Coking Company Limited

SL Serviços Logísticos Ltda

Sociedad Contractual Minera Tres Valles

Sociedade de Mineração Constelação de Apolo S.A.

Société Industrielle et Com. Brasilo-Luxemborgoise - BRASILUX

SRV Reinsurance Company S.A.

Startec Iron LLC

Tao Sustainable Power Solutions (BVI)

Tao Sustainable Power Solutions (UK)

Tao Sustainable Power Solutions (US)

Teal Minerals (Barbados) Incorporated

Tecfer Serra Azul Ltda.

Tecnored Desenvolvimentos Tecnológicos S.A

Tecnored Tecnologia de auto-Redução S.A.

Terminal de Vila Velha S.A. - TVV

Table of Contents

Tethys Mining LLC

The Central East African Railways Company Limited

ThyssenKrupp Companhia Siderúrgica do Atlântico

ThyssenKrupp Slab International B.V

Tiebaghi Nickel S.A.S.

Transbarga Navegacion S.A. - TBN

Transporte Ferroviario Concesionaria S.A. - TFC

Transporte Ferroviário Inversora Argentina S.A. - TFI

TUF Empreendimentos e Participações S.A.

Turbo Power Systems Inc.

Turbo Power Systems Limited

UF Distribuidora de Combustíveis Ltda

Ultrafértil S.A

Vale Africa Investments (Proprietary) Limited

Vale Americas Inc

Vale Ásia Kabushiki Kaisha - Vale Asia K.K.

Vale Australia (CQ) Pty Ltd - (ACN 103 902 389)

Vale Australia (EA) Pty Ltd - (ACN 081 724 101)

Vale Australia (GC) Pty Ltd - (ACN 097 238 349)

Vale Australia (IP) Pty Ltd - (ACN 114 276 694)

Vale Australia Ellensfield Pty Ltd - (ACN 123 542 487)

Vale Australia Holdings Pty Ltd (ACN 075 176 386)

Vale Australia Pty Ltd (ACN 062 536 270)

Vale Belvedere (BC) Pty Ltd

Vale Belvedere (SEQ) Pty Ltd

Vale Belvedere Pty Ltd (ACN 128 403 645)

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Vale Canada Holdings Inc.

Vale Canadá Limited

Vale Capital II

Vale China Holdings (Barbados) Ltd.

Vale Coal Exploration Pty Ltd - (ACN 108 568 725)

Vale Comercio International SE - VCI

Vale Cubatão Fertilizantes Ltda

Vale Emirates Limited

Vale Energia Limpa S.A. - VEL

Vale Energia Limpa Moçambique Ltd

Vale Energia S.A

Vale Europa SE

Vale Europe Limited

Vale Europe Pension Trustees Ltd.

Vale Evate Moçambique Limitada

Vale Exploració Argentina S.A. - VEA

Vale Exploraciones Chile Ltda

Vale Exploraciones Mexico S.A. de C.V.

Vale Exploration Canada Inc.

Vale Exploration Peru SAC

Vale Exploration Philippines Inc

Vale Exploration Pty Ltd (ACN 127 080 219)

Vale Explorations USA, Inc.

Vale Fertilizantes Moçambique Limitada

Vale Fertilizantes S.A.

Vale Fertilizer Austrália PtY Ltd

Vale Fertilizer International Holding B.V

Vale Fertilizer Netherlands B.V

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Vale Florestar - Fundo de Deenvolvimento e Participações (Fundo)

Vale Florestar S.A.

Vale Guinée S.A

Vale Holdings (Barbados) Limited

Vale Holdings AG

Vale Inco Asia Ltd.

Vale Inco Atlantic Sales Limited

Vale Inco Australia Ltd. Partnership

Vale Inco Europe Holdings

Vale Inco Management Advisory Services (Shangai) Co., Ltd.

Table of Contents

Vale Inco Pacific Ltd.

Vale Inco Resources (Australia) Pty Ltd.

Vale India Private Limited

Vale International Holdings GmbH

Vale International S.A

Vale Investments Ltd.

Vale Japan Ltd.

Vale Kazakhstan Limited Liability Partnership

Vale Limited

Vale Logística Africa Ltd

Vale Logística da Argentina S.A - VLA

Vale Logística do Uruguay S.A

Vale Logistics Limited

Vale Malaysia Minerals Sdn. Bhd

Vale Manganês S.A

Vale Manganese France

Vale Mauritius Ltd.

Vale Mina do Azul S.A

Vale Minerals China Co. Ltd

Vale Moçambique Ltda.

Vale Newfoundland & Labrador Ltd.

Vale Nickel (Dalian) Co. Ltd

Vale Nouvelle-Calédonie S.A.S.

Vale Oil & Gas Peru S.A.C.

Vale Óleo e Gás S.A

Vale Oman Distribution Center LLC

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Vale Oman Pelletizing Company LLC

Vale Overseas Ltd.

Vale Pecém S.A.

Vale Potash Canada Limited

Vale Power Moatize Limited

Vale Projectos e Desenvolvimento Moçambique Limitada

Vale Proyectos Minerales S.A

Vale Republic Democratique Du Congo - Vale Congo

Vale Shipping Company Pte Limited

Vale Shipping Enterprise Pte. Ltd

Vale Shipping Holding Pte. Ltd

Vale Shipping Singapore Pte. Ltd

Vale Slab S.A

Vale Soluções em Energia S.A

Vale South Africa (Proprietary) Ltd.

Vale Switzerlnd AS

Vale Taiwan Limited

Vale Technology Development (Canada) Limited

Vale Trading (Shanghai) Co. Ltd - VTS

Vale Zambia Limited

ValeServe Malaysia Sdn. Bhd.

Valesul Alumínio S.A.

VBG - Logistics (Vale BSGR Logistics) Corp.

VBG - Vale BSGR BVI Limited

VBG - Vale BSGR Guinea

VBG - Vale BSGR Liberia Limited

VBG - Vale BSGR Limited

VEL (ME) Ltd

VEL Holdings GmbH

VLI Multimodal S.A.

VLI Operações de Terminais S.A. - VOT

VLI Operações Portuárias S.A. - VOP

VLI S.A.

YPF S.A. - Potasio Rio Colorado S.A., Unión Trasitoria de empresas - Segmento 5 Loma La Lata - Sierra Barrosa

Zhuhai YPM Pellet Co. Ltd.

Table of Contents

d. participation in the Company by companies in the group

Additionally to companies indicated in item 15.1 in this Reference Form, none of the holding s corporations have direct and indirect participation in the Company s control.

As well as participation in Vale by the direct controller Valepar, described in item a above, the following companies hold direct shares in the Company on December 31, 2012:

Company in the Group	Participation in the Company (%)
BNDES Participações S.A.	5.1%
Caixa de Previd. dos Func. do Banco do Brasil - Previ	0.1%

e. companies under common control

Vale is an equity company controlled by Valepar, whose indirect and indirect shareholders are Previ, BNDESPar, Bradespar, Mitsui, and Eletron. Therefore, all other companies are controlled by these shareholders are considered as corporation under the same control relative to Vale.

8.2. Holding s Organization Chart

Vale has chosen not to present its holding s organization chart, grounded in CVM Instruction no. 480, on December 7, 2009.

8.3 Restructuring operations

Justification for not filling out the table:

See item 6.5 of this Reference Form.

8.4 Other information which the Company judges to be relevant

As Mitsui & Co. Ltd., a direct controller of Valepar S.A., has capital shares spread among many shareholders with no clearly defined control, its shareholders were not considered to be a company of the group in item 8.1 (d) of this Reference Form.

Table of Contents**9.1 Relevant non-current assets others**

Items 9.1 (a), 9.1 (b), and 9.1(c) of this Reference Form, describe the principal non-current assets of the Company.

The main fixed assets of the Company consist of various buildings, facilities, equipment, IT equipment, railroads, and mining rights, as described in item 9.1 (a) of this Reference Form.

The following table describes the book value of fixed assets of the Company in December 31, 2012 by category and geographic location:

2012	In thousands of R\$								Total
	Brazil	Europe	North America	Australia	Africa	Asia	New Caledonia	Others	
Buildings	7,522,280	158,912	753,508		2,213	1,902,223	2,346,851	70,430	12,756,417
Facilities	12,903,043	67,318	1,701,534		2,200	9,235	5,422,884	707,389	20,813,602
Equipment	9,464,002	173,287	1,014,690		358,709	2,136,417	146,626	2,206,165	15,499,896
IT	211,889	6,418	75,062		4,355	11,414	30,646	344,574	684,358
Railroads	5,137,640		47,083			1,420		0	5,186,143
Mining	10,176,263	6,406	16,087,058	1,478,344	2,598,649	2,083,569	1,354,664	850,564	34,635,517
Others	6,290,528	527,940	3,185,858	860,891	998,520	2,546,572	552,154	391,574	15,354,038
Ongoing	32,438,461	387,394	7,111,552		3,513,083	4,044,612	675,917	753,872	48,924,892
Total	84,144,105	1,327,675	29,976,344	2,339,235	7,477,730	12,735,463	10,529,742	5,324,568	153,854,863

Table of Contents**9.1 Relevant non-current assets / 9.1.a Fixed assets**

Description of the fixed asset	Location	Country	Location	State	Location	Municipality	Type of Property
Iron ore mine - Carajás	Brazil		Pará		Various		
Iron ore mines - various Southeast system	Brazil		Various		Various		
Iron ore mines - various Southern system	Brazil		Minas Gerais		Various		
Pelletizing plant - Tubarão I	Brazil		Espírito Santo		Vitória		Own
Pelletizing plant - Tubarão II	Brazil		Espírito Santo		Vitória		Own
Pelletizing plant - Fábrica	Brazil		Minas Gerais		Congonhas		Own
Pelletizing plant - São Luiz	Brazil		Maranhão		São Luis		Own
Pelletizing plant - Vargem Grande	Brazil		Minas Gerais		Nova Lima		Own
Pelletizing plant - Samarco	Brazil		Espírito Santo		Anchieta		Own
Pelletizing plant - Zhuhai YPM	China				Zhuhai		Own
Pelletizing plant - Anyang	China				Anyang		Own
Pelletizing plant - Hispanobras	Brazil		Espírito Santo		Vitória		Lease
Pelletizing plant - Itabasco	Brazil		Espírito Santo		Vitória		Lease
Pelletizing plant - Kobrasco	Brazil		Espírito Santo		Vitória		Lease
Pelletizing plant - Nibrasco	Brazil		Espírito Santo		Vitória		Lease
Integrated nickel production system: mine, processing plant, smelter	Canada				Sudbury		
Integrated nickel production system: mine, processing plant, smelter	Canada				Thompson		
Nickel mine and processing plant	Canada				Voisey's Bay		
Carajás Railroad	Brazil		Various		Various		
Vitória a Minas Railroad	Brazil		Various		Various		
Centro-Atlântica Railroad	Brazil		Various		Various		
North-South Railroad	Brazil		Various		Various		
MRS Logistics	Brazil		Various		Various		
Manganese Mines	Brazil		Various		Various		
Paragominas Mine - bauxite	Brazil		Pará		Various		
Thermal and metallurgical coalmine	Australia				Hunter Valley		
Thermal and metallurgical coalmine	Australia				Bowen Basin		
Iron ore mines - various Central West system	Brazil		Mato Grosso do Sul		Various		
Pelletizing plant - Oman	Oman						Own
Platinum Refinery	England				Acton		Own
Nickel mine and processing plant	New Caledonia				Noumea		

Table of Contents

PTI nickel mine	Indonesia		Sorowako	
Nickel refinery	Wales		Clydach	Own
Sossego mine	Brazil	Pará	Various	
Salobo mine	Brazil	Pará	Various	
Onça Puma mine	Brazil	Pará	Various	
Thermal and metallurgical coalmine - Moatize	Mozambique		Various	
Phosphorite mine - Bayóvar	Peru		Piura	
Phosphorite mine and processing plant	Brazil	Various	Various	
Port Colborne smelter of precious metals	Canada		Ontario	Own
Ferrous plant	Brazil	Various	Various	Own
Nickel processing plant	Taiwan		Kaoshing	Own
Cathode copper processing plant Tres Valles	Chile		Salamanca	Own

Table of Contents**9.1 - Relevant non-current assets / 9.1.b - Patents, trademarks, licenses, concessions, franchises, and contracts for technology transfer**

Type of asset	Description of asset	Territory affected	Duration	Events which might cause a loss of rights	Consequences of loss of rights
Concessions	Mining concessions in Brazil	660,715 hectares	Undetermined	Persistent breach of current mining legislation: predatory mining; mining stopped without notice to, and consent of, the competent agency; not answering repeated requests for routine inspections.	Interruption and/or cancellation of mining operations in Brazil
Concessions	Lease license to mining in Canada	275,764 hectares	2013-2033	Failure to pay taxes (mining tax or rental fees), non-compliance with regulation, failure to present renewal application. Rejection of application for renewal, noncompliance with renewal requirements.	Interruption and/or cancellation of mining operations and/or mineral exploration in Canada
Concessions	Contract of Work Indonesia	190,510 hectares	2025	End of the term of the contract; cancellation due to errors or irregularity in the procedure for or in the act of its granting; and in the case of the bankruptcy or dissolution of the concessionaire. Breach of legislation. Note: The Contract of Work of mines that Vale has in Indonesia expires in 2025. However, according to the new Mining Law, Vale may request at least one extension of 10 years.	Interruption and/or cancellation of mining operations in Indonesia.
Concessions	Mining concessions in Australia	19,200 hectares	2015-2041	Non-payment of lease/royalties; failure to submit report on activities. Breach of legislation.	Interruption and/or cancellation of mining operations in Australia.
Concessions	Mining concessions in New Caledonia	21,269 hectares	2015-2051	Non-payment of fees, non-payment of lease/royalties; non-submission of report on activities; lack of activity on the concessions. Breach of legislation.	Interruption and/or cancellation of mining operations in New Caledonia; impossibility of adding mineral resources that allow expanding our mining activities outside the area of the VNC project.
Concessions	Mining concessions in Peru	153,968 hectacers	Undetermined	Non-payment of fees for two consecutive years	Interruption and/or cancellation of mining

Table of Contents

				and non-payment of fines. Breach of legislation.	operations in Peru.
Concessions	Mining concessions (Discovery Statement and mine) in Argentina	167,073 hectares	Undetermined	Failure to present the request for measurement; failure to use legalized labor; non-payment of mining fees.	Interruption and/or cancellation of mining operations in Argentina.
Concessions	Mining concessions in Chile	64,697 hectares	Undetermined	Non-compliance with annual payment deadlines; lack of opposition [sic] from third parties to requests for areas by Vale.	Interruption and/or cancellation of mining operations in Chile.
Concessions	Mining concessions in Mozambique	23,780 hectares	2032	In this country, the reasons for loss of the concession are, above all, related to: (i) the abandonment or the mine; (ii) the performance of mining activities under health and safety conditions that are not compatible with the requirements of local legislation; (iii) the lack of payment of fees regarding production of minerals and other levies due as a result of carrying out mining activity; and (iv) bankruptcy of the company, failure to demarcate the area, failure to pay specific taxes, failure to present working reports, and non-performance of work in accordance with the mining plan.	Interruption and/or cancellation of mining operations in Mozambique.
Concessions	Mining concessions in Guinea (Concession Minière)	102,400 hectares	2035	Failure to pay fees and taxes, failure to submit activity reports, lack of activities in the concessions. Significant changes to mining legislation, cancellation of mining concessions. Non-compliance with contractual obligations with the Government of Guinea (Base Convention), non-compliance with legal	Interruption and/or cancellation of mining operations in Guinea.

Table of Contents

				requirements and/or mineral legislation.	
Concessions	Rail concession for passenger and freight transport on the Carajás Railroad	892 km (in the states of MG, SP, ES, RJ, GO, BA, SE, and the DF)	2027 (extendible for 30 years)	The concession will be terminated if one of the following takes place: the end of the contractual period, nationalization, forfeiture, rescission, cancellation, or bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the railroad operations, which make up the Northern System of Vale.
Concessions	Rail concession for passenger and freight transport on the Vitória a Minas Railroad	Extension of 905 km in the states of Espírito Santo and Minas Gerais	2027 (extendible for 30 years)	The concession will be terminated if one of the following takes place: the end of the contractual period, nationalization, forfeiture, rescission, cancellation, or bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the railroad operations, which make up the Southeast System of Vale.
Concessions	Concession for the Center-East network belonging to the Federal Railroad Network (RFF), granted to the Centro-Atlântica Railroad	8,023 km [sic] in the states of Maranhão and Pará	2026 (extendible for 30 years)	The concession will be terminated if one of the following takes place: the end of the contractual period, nationalization, forfeiture, rescission, cancellation, or bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the railroad operations.
Concessions	Concession for the South-East network belonging to the Federal Railroad Network (RFF), granted to MRS Logística	1,643 km in the states of Minas Gerais, São Paulo, and Rio de Janeiro	2026 (extendible for 30 years)	The concession will be terminated if one of the following takes place: the end of the contractual period, nationalization, forfeiture, rescission, cancellation, or bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the railroad operations, which make up the Southern System of Vale.

Table of Contents

Concessions	Sub concession contract with lease of North-South Railroad network	720 km, between Açailândia (MA) and Palmas (TO)	2037 (extendible for 30 years)	The concession will be terminated if one of the following takes place: the end of the contractual period, nationalization, forfeiture, rescission, cancellation, or bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the railroad operations.
Concessions	Concession for use of public property for electric energy generation Igarapava Dam	Igarapava (SP), Conquista (MG), Rifaina (SP)	2028	(i) by reversion of the asset at the end of the contractual period; (ii) by nationalization.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant.
Concessions	Concession for use of public property for electric energy generation Porto Estrela Dam	Joanésia (MG), Braúnas (MG), and Açucena (MG)	2032	(i) the termination of the contractual period; (ii) by nationalization of the services; (iii) by forfeiture; (iv) by rescission; (v) by cancellation as a result of defect or irregularity verified in the procedure or act of making the grant; (vi) in the case of bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant.
Concessions	Concession for use of public property for electric energy generation Capim Branco I and II Dam	Araguari (MG), Uberlândia (MG), and Indianópolis (MG)	2036	(i) the termination of the contractual period; (ii) by nationalization of the services; (iii) by forfeiture; (iv) by rescission; (v) by cancellation as a result of defect or irregularity verified in the procedure or act of making the grant; (vi) in the case of bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant.
Concessions	Concession for use of public property for electric energy generation Funil Dam	Cities in Minas Gerais	2035	(i) the termination of the contractual period; (ii) by nationalization of the services; (iii) by forfeiture; (iv) by rescission; (v) by cancellation as a result of defect or irregularity verified in the procedure or act of making the grant; (vi) in the case of bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant. Note: Lavras (MG), Perdões (MG), Ijaci (MG), Itumirim (MG), Ibituruna (MG), and Bom Sucesso (MG).

Table of Contents

Concessions	Concession for use of public property for electric energy generation Aimorés Dam	Cities in Minas Gerais [sic]	2035	(i) the termination of the contractual period; (ii) by nationalization of the services; (iii) by forfeiture; (iv) by rescission; (v) by cancellation as a result of defect or irregularity verified in the procedure or act of making the grant; (vi) in the case of bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant. Note: Aimorés (MG), Baixo Guandu (ES), Resplendor (MG), and Itueta (MG)
Concessions	Concession for use of public property for electric energy generation Candongua Dam	Rio Doce (MG) and Santa Cruz do Escalvado (MG)	2035	(i) the termination of the contractual period; (ii) by nationalization of the services; (iii) by forfeiture; (iv) by rescission; (v) by cancellation as a result of defect or irregularity verified in the procedure or act of making the grant; (vi) in the case of bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant.
Concessions	Concession for use of public property for electric energy generation Estreito Dam	Cities in the states of Maranhão and Tocantins	2037	(i) termination of the contractual period; (ii) nationalization; (iii) forfeiture; (iv) rescission; (v) cancellation as a result of defect or irregularity verified in the procedure or act of making the grant; (vi) bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant. Note: Estreito and Carolina (MA) and Aguiarnópolis, Darcinópolis, Goiatins, Babaçulândia, Barra do Ouro, Palmeirante, Palmeiras do Tocantins, Tocantinópolis, Tupiratins, Itapiratins, and Filadélfia (TO).
Concessions	Concession for use of public property for electric energy generation Santa Isabel Dam	Cities in the states of Tocantins and Pará	2037* is not under commercial operation yet. Consortium claims that the term should start upon issuance of the LP, which has not	(i) termination of the contractual period; (ii) nationalization; (iii) forfeiture; (iv) rescission; (v) cancellation as a result of defect or irregularity verified in the procedure or act of making the grant; (vi) bankruptcy or dissolution of the concessionaire.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant. Note: Ananás, Araguaia, Riachinho, and Xambioá (TO) and Palestina do Pará, Piçarra, and São Geraldo do Araguaia (PA)

Table of Contents

				been issued by IBAMA yet, under analysis by the Ministry of Mines and Energy.	
Concessions	Concession in a shared arrangement for electric energy generation Machadinho Dam	Cities in the states of Rio Grande do Sul and Santa Catarina	2032	(i) by reversion of the asset at the end of the contractual period; (ii) by nationalization; (iii) by forfeiture.	Interruption and/or cancellation of the supply of energy from the hydroelectric plant. Note: Anita Garibaldi, Celso Ramos, Campos Novos, Zortéa, Capinzal, and Piratuba (RS) and Maximiliano de Almeida, Machadinho, Barracão, and Pinhal da Serra (SC).
Concessions	Concession for the utilization of hydraulic energy Nova Maurício Dam	Leopoldina (MG)	2021	(i) termination of the contractual period.	Interruption and/or cancellation of the supply of energy from the small hydroelectric plant.
Concessions	Concession for the utilization of hydraulic energy Glória Dam	Muriaé (MG)	2021	(i) termination of the contractual period.	Interruption and/or cancellation of the supply of energy from the small hydroelectric plant.
Concessions	Concession for the utilization of hydraulic energy Ituerê Dam	Rio Pomba (MG)	2021	(i) termination of the contractual period.	Interruption and/or cancellation of the supply of energy from the small hydroelectric plant.
Concessions	Concession for the utilization of hydraulic energy Mello Dam	Rio Preto (MG)	2025	(i) termination of the contractual period.	Interruption and/or cancellation of the supply of energy from the small hydroelectric plant.
Trademarks	Registration of Mixed Trademark Vale	98 countries	2017 (extendible every 10 years)	Within the administrative sphere (the Brazilian National Institute for Industrial Property - INPI), the registration of trademarks already granted may be contested through nullification procedures or be subject to petitions for partial or total cancellation under the allegation that the trademark is not being used in the way that the registration was granted. In the judicial	The loss of rights to trademarks results in the impossibility of stopping third parties from using identical or similar trademarks to brand even competing products and services, since the holder loses the right to the exclusive use of them. There also exists the possibility that the holder be subject to criminal and civil lawsuits for improper use, in the case of the

Table of Contents

sphere, third parties may sue for the nullification of trademark registrations alleging violation of their rights to industrial property. Trademark registrations are maintained by periodic payments to INPI. The payment of the fees due and the continual use of the trademarks are indispensable to avoid the termination of their registration and the consequent cessation of the rights of the holder.

violation of the rights of third parties, resulting in the impossibility of using the trademarks when carrying out its activities. It is not possible to quantify the impact of these events.

Table of Contents**9.1 - Relevant non-current assets / 9.1.c Participation in Corporations**

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Aços Laminados do Pará	10.335.963/0001-08		Controlled company	Brazil	RJ	Rio de Janeiro	100.000000

Business Year	Book value variation (%)	Market value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	20.000000		0.000000	0.00	Market value (12/31/2012)	
12/31/2011	213.000000		0.000000	0.00		
12/31/2010	740.000000		0.000000	0.00	Book value (12/31/2012)	R\$ 319,000,000.00

Reasons for buying and holding that participation Encourage the consumption of iron ore in Brazil through investment in the iron and steel company.

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
VBG Vale BSG Limited	00.000.000/0000-00		Controlled	Virgin Islands (England)			51.000000

Business Year	Book value variation (%)	Market value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	15.000000		0.000000	0.00	Market value (12/31/2012)	0.000000
12/31/2011	-9.000000		0.000000	0.00		
12/31/2010	0.000000		0.000000	0.00	Book value (12/31/2012)	R\$ 869,000,000.00

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Reasons for buying and holding that participation Iron ore investment in Guinea

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
California Steel Industries, Inc.	00.000.000/0000-00		Affiliate	United States			50.000000

Description of activities Exploration of any type of activity that is legal in the state of Delaware.

Business Year	Book value variation (%)	Market value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	14.000000		0.000000	19,000,000.00	Market value (12/31/2012)	
12/31/2011	17.000000		0.000000	0.000000		
12/31/2010	0.000000		0.000000	0.000000	Book value (12/31/2012)	R\$ 342,000,000.00

Table of Contents**Reasons for buying and holding that participation** Relaminating operations in the USA.

Companhia	33.931.494/0001-87	Controlled	Brazil	ES	Vitória	50.000000
Coreano-Brasileira de Pelotização Kobrasco						

Business Year	Book value variation (%)	Market value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	5.000000		0.000000	40,000,000.00	Market value (12/31/2012)	
12/31/2011	0.000000		0.000000	54,000,000.00		
12/31/2010	38.670000		0.000000	18,000,000.00	Book value (12/31/2012)	R\$ 219,000,000.00

Companhia	27.240.092/0001-33	Controlled	Brazil	ES	Vitória	50.890000
Hispano-Brasileira de Pelotização Hispanobras						

Business Year	Book value variation (%)	Market value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-1.000000		0.000000	74,000,000.00	Market Value (12/31/2012)	
12/31/2011	1.000000		0.000000	0.00		
12/31/2010	45.210000		0.000000	32,000,000.00	Book Value (12/31/2012)	R\$ 213,000,000.00

Reasons for buying and holding that participation Expansion of Vale's participation in the pellet market in Brazil

Companhia	27.063.874/0001-44	Controlled	Brazil	ES	Vitória	50.900000
Ítalo-Brasileira de Pelotização Itabasco						

Business Year	Book Value variation (%)	Market Value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-15.000000		0.000000	36,000,000.00	Market Value (12/31/2012)	
12/31/2011	5.000000		0.000000	71,000,000.00		
12/31/2010	-10.060000		0.000000	0.00	Book Value (12/31/2012)	R\$ 130,000,000.00

Table of Contents

Companhia Nipo-Brasileira de Pelotização Nibrasco						
27.251.842/0001-72	Affiliate	Brazil	ES	Vitória	51.000000	

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	-2.000000	0.000000	51,000,000.00	Market Value	(12/31/2012)	
12/31/2011	12.000000	0.000000	36,000,000.00			
12/31/2010	30.590000	0.000000	5,000,000.00	Book Value	(12/31/2012)	R\$ 364,000,000.00

Reasons for buying and holding that participation Expansion of Vale's participation in the pellet market in Brazil.

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Companhia Portuária da Baía de Sepetiba CPBS	04.788.980/0001-90		Controlled	Brazil	RJ	Rio de Janeiro	100.000000

Description of activities The construction and utilization of a port facility for private, mixed use, located within the area of Porto de Sepetiba, Rio de Janeiro, specialized in moving and storage of iron ore and its derivatives. Secondly and with a complementary character, the company may carry out port operations with other dry bulks, as long as these complementary operations do not interfere with the main operations. It is forbidden for the company to perform any activity different from its purpose, except with the express authorization of Companhia Docas do Rio de Janeiro - CDRJ.

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	30.000000	0.000000	126,000,000.00	Market Value	(12/31/2012)	
12/31/2011	12.000000	0.000000	155,000,000.00			
12/31/2010	0.000000	0.000000	147,000,000.00	Book Value	(12/31/2012)	R\$ 454,000,000.00

Reasons for buying and holding that participation Supply port services for iron ore operations.

Corporate Name	CVM Code	Type of Corporation	HQ - Country	HQ - State
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	CNPJ (Corporate Tax ID)					HQ - Municipality	Issuer participation (%)
Ferrovias Centro Atlântica S.A.	00.924.429/0001-75	01536-9	Controlled	Brazil	MG	Belo Horizonte	99.990000

**Description of
activities**

Provide rail transport services; operate services for loading, unloading, warehousing, and transshipment in stations, yards, and land within the range of existing railway lines which are object of the concession; furnish modal transport related to rail transport; serve as a port operator, running services and operations for moving and storage of goods destined for or coming from water transport; participate in projects that aim to promote the socio-economic development of the

Table of Contents

12/31/2012	24.000000	0.000000	0.00	Market Value	(12/31/2012)	R\$	0.00
12/31/2010	12.400000	0.000000	0.00	Book Value	(12/31/2012)	R\$	2,926,000,000.00

Ferrovia Norte Sul S.A.	09.257.877/0001-37	2181-4	Controlled	Brazil	MA	São Luís	100.00000
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Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value	
12/31/2012	-1.000000	0.000000	0.00	Market Value	(12/31/2012)	R\$ 0.00
12/31/2011	0.000000	0.000000	3,000,000.00			
12/31/2010	35.000000	0.000000	0.00	Book Value	(12/31/2012)	R\$ 1,717,000,000.00

Henan Longyu Energy Resources Co. Ltd.	00.000.000/0000-00		Affiliate	China			25.000000
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Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	32.000000	0.000000	107,000,000.00		(12/31/2012)	
12/31/2011	27.000000	0.000000	0.00			
12/31/2010	-4.140000	0.000000	147,000,000.00	Book Value	(12/31/2012)	R\$ 697,000,000.00

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Table of Contents

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Log-In Logística Intermodal S.A.	42.278.291/0001-24	2071-0	Affiliate	Brazil	RJ	Rio de Janeiro	31.330000

Description of activities Operate its own or third-party boats for long-distance maritime commerce, coastal, and river transport of general cargo; operate inland terminals and ports, including port support navigation; carry out warehousing activities and marketing logistics and products services and management of vessels; provide transport services by road and rail, and carry out complementary, related, or incidental activities, related to their main activities, when necessary or convenient for corporate interests.

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-9.000000	18.870000	0.00	Market Value (12/31/2012)	R\$ 667,667,000.00
12/31/2011	-5.000000	-34.000000	0.00		
12/31/2010	2.700000	22.400000	0.00	Book Value (12/31/2012)	R\$ 192,000,000.00

Reasons for buying and holding that participation provide logistics solutions to clients..

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Mineração Corumbaense Reunida S.A. MCR	03.327.988/0001-96		Controlled	Brazil	MS	Corumbá	100.000000

Description of activities Investigate and research ores and minerals; utilize and administer mine and mineral resources in general; obtain research permits and mining concessions for all kinds of ores and minerals under the terms of the laws regarding these matters; purchase and lease land, equipment, and facilities, including rights and interests in the subsoil and on the surface; purchase, sell, improve, process, refine, industrialize, import and export, market, and transport by rail, road and/or sea, ores, minerals, and metals of any kind whatsoever, on its own behalf or that of third parties; purchase and sell any and all manufactured products, machinery, and equipment related to the activities listed above; represent other companies, domestic and foreign; and participate in other commercial or civil companies, either as a partner, shareholder, or quota holder.

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	23.000000	0.000000	93.000.000.00	Market Value (12/31/2012)	
12/31/2011	22.000000	0.000000	0.00		
12/31/2010	-14.100000	0.000000	0.00	Book Value (12/31/2012)	R\$ 1,365,000,000.00

Reasons for buying and holding that participation Expansion of Vale's participation in the market for granulated iron ore.

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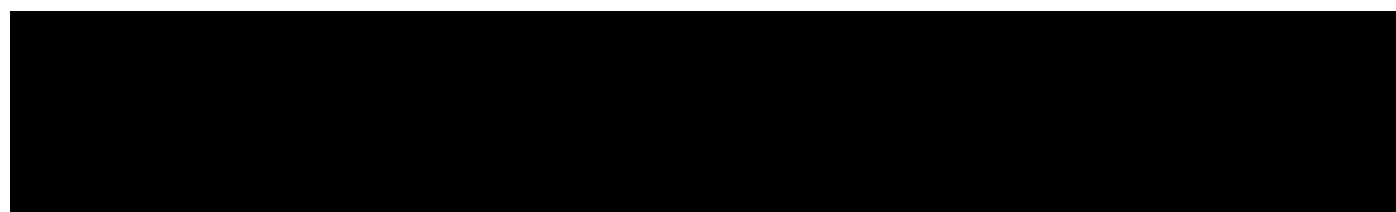
Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Minerações Brasileiras Reunidas S.A. MBR	33.417.445/0001-20		Controlled	Brazil	MG	Nova Lima	98.320000

Description of activities

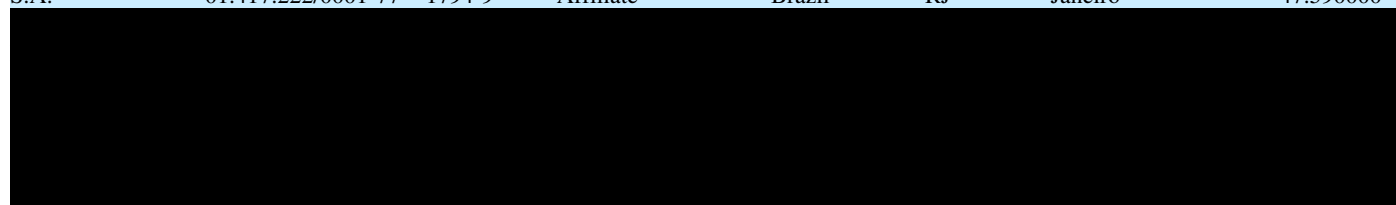
The mineral extraction industry, including prospecting and mining; provision of technical services especially to mining companies; transportation, processing, shipping, and sale of ores, for its own account or that of third parties; export and import of ores; participation in other companies, especially those whose objective is mining or transportation, processing, and shipping and sale of ores; provision of transport services; port and fluvial support.

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	20.000000	0.000000	258,000,000.00		(12/31/2012)	
12/31/2011	16.000000	0.000000	0.00			
12/31/2010	0.000000	0.000000	0.00	Book Value	(12/31/2012)	R\$ 4,538,000,000.00

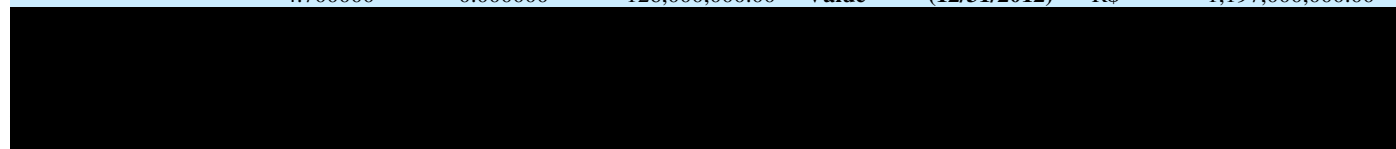
Table of Contents



MRS Logística S.A.	01.417.222/0001-77	1794-9	Affiliate	Brazil	RJ	Rio de Janeiro	47.590000
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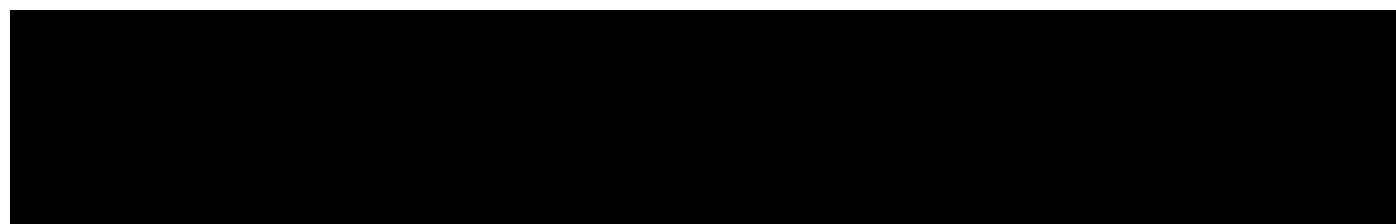
Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	16.000000	0.000000	119,000,000.00	Market Value	(12/31/2012) R\$	0.00
12/31/2011	21.000000	0.000000	92,000,000.00			
12/31/2010	4.700000	0.000000	126,000,000.00	Book Value	(12/31/2012) R\$	1,197,000,000.00



CNPJ							Issuer participation (%)
Corporate Name	(Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	
Norsk Hydro ASA	00.000.000/0000-00		Affiliate	Norway			21.650000



Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	-24.000000	11.490000	95.000.000.00	Market Value	(12/31/2012) R\$	18,292,000,000.00
12/31/2011	-10.500000	-15.830000	0.00			
12/31/2010	0.000000	7.090000	0.00	Book Value	(12/31/2012) R\$	4,572,000,000.00

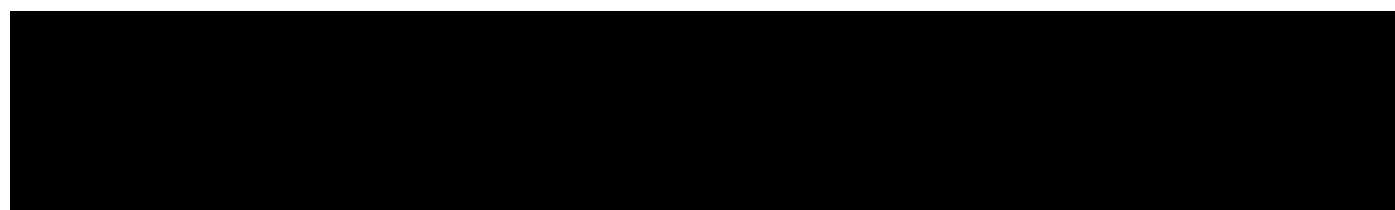


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Salobo Metais S.A.	33.931.478/0001-94	Controlled	Brazil	RJ	Rio de Janeiro	100.000000
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Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	37.000000	0.000000	0.00	Market Value (12/31/2012)	
12/31/2011	41.000000	0.000000	0.00		
12/31/2010	104.500000	0.000000	0.00	Book Value (12/31/2012) R\$	6,343,000,000.00

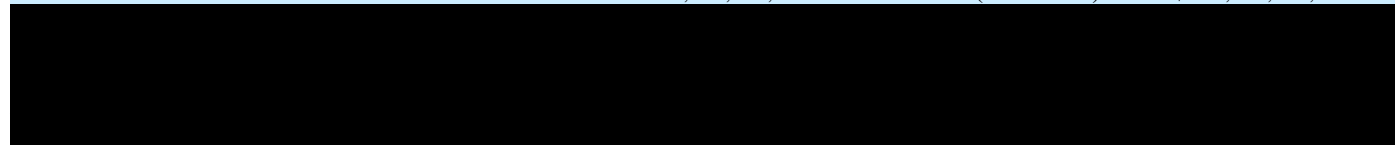
Table of Contents



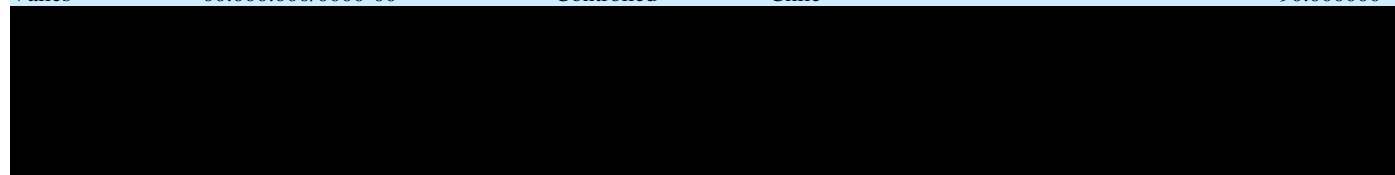
Samarco Mineração S.A.	16.628.281/0001-61	Affiliate	Brazil	MG	Belo Horizonte	50.000000
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Business Year	Book Value variation (%)	Market Value	variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	73.000000		0.000000	373,000,000.00		(12/31/2012)	
12/31/2011	10.000000		0.000000	1,384,000,000.00			
12/31/2010	-25.050000		0.000000	1,639,000,000.00	Book Value	(12/31/2012)	R\$ 1,288,000,000.00



Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Sociedad Contractual Minera Tres Valles	00.000.000/0000-00		Controlled	Chile			90.000000



Business Year	Book Value variation (%)	Market Value	variation (%)	Amount of dividends received (Reais)	Market Value	Date	Value
12/31/2012	6.000000		0.000000	0.00		(12/31/2012)	
12/31/2011	10.000000		0.000000	0.00			
12/31/2010	-13.600000		0.000000	0.00	Book Value	(12/31/2012)	R\$ 460,000,000.00



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	CNPJ					HQ -	Issuer participation
Corporate Name	(Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	Municipality	(%)
Thyssenkrupp CSA Cia. Siderúrgica do Atlântico	07.005.330/0001-19		Affiliate	Brazil	RJ	Rio de Janeiro	26.870000

Table of Contents

12/31/2012	-64.000000	0.000000	0.00	Market Value	(12/31/2012)		
12/31/2010	-13.500000	0.000000	0.00	Book Value	(12/31/2012)	R\$	1,092,000,000.00

CNPJ						HQ - Municipality	Issuer participation (%)
Corporate Name	(Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State		
Vale Austria Holdings GMBH	00.000.000/0000-00		Controlled	Austria			100.000000

Business Year	Book Value variation (%)	Market Value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	4.000000		0.000000	0.00	Market Value	(12/31/2012)
12/31/2011	383.000000		0.000000	0.00		
12/31/2010	0.000000		0.000000	0.00	Book Value	(12/31/2012) R\$ 8,193,000,000.00

CNPJ						HQ - Municipality	Issuer participation (%)
Corporate Name	(Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State		
Vale Canada Limited	00.000.000/0000-00		Controlled	Canada			100.000000

Table of Contents

Business Year	Book Value variation (%)	Market Value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	21.000000		0.000000	0.00	Market Value (12/31/2012)	
12/31/2011	8.000000		0.000000	0.00		
12/31/2010	13.340000		0.000000	0.00	Book Value (12/31/2012)	R\$ 11,809,000,000.00

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Table of Contents

Corporate Name	CNPJ		Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
	(Corporate Tax ID)	CVM Code					
Vale Florestar S.A.	11.985.056/0001-69		Affiliate	Brazil	RJ	Rio de Janeiro	40.000000

Business Year	Book Value variation (%)	Market Value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-1.000000		0.000000	0.00	Market Value (12/31/2012)	
12/31/2011	-3.000000		0.000000	0.00		
12/31/2010	0.000000		0.000000	0.00	Book Value (12/31/2012)	R\$ 224.000.000,00

Corporate Name	CNPJ		Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
	(Corporate Tax ID)	CVM Code					
Vale International S.A.	00.000.000/0000-00		Controlled	Switzerland			100.000000

Business Year	Book Value variation (%)	Market Value	variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-8.000000		0.000000	0.00	Market Value (12/31/2012)	
12/31/2011	9.000000		0.000000	0.00		
12/31/2010	23.300000		0.000000	0.00	Book Value (12/31/2012)	R\$ 35,762,000,000.00

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Table of Contents

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Vale Manganês S.A.	15.144.306/0001-99		Controlled	Brazil	BA	Congonhas	100.000000

Description of activities The steel industry, metallurgy, industry, and sale of ferroalloys; utilization, for its own account or in combination with other companies, of mineral deposits, including prospecting, mining, processing, transportation, sale, import, and export of mineral substances; reforestation; extraction, production, sale, import, and export of wood and charcoal and other goods of mineral or vegetable origin used in its production processes and their derivatives and by-products; import and export of goods related to or required for its activities, including equipment, inputs, and miscellaneous materials; any other related activities that do not conflict with its business purpose or with prevailing legislation

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-4.000000	0.000000	958,000.00	Market Value (12/31/2012)	
12/31/2011	-19.000000	0.000000	0.00		
12/31/2010	29.100000	0.000000	0.00	Book Value (12/31/2012)	R\$ 687,000,000.00

Reasons for buying and holding that participation Running of ferroalloy and manganese operations in Brazil

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Vale Soluções em Energia S.A.	09.327.793/0001-22		Controlled	Brazil	RJ	Rio de Janeiro	53.130000

Description of activities Research and development of technologies in order to obtain systems and products ecologically efficient for the generation of energy, as well as the development and test of prototypes; development of technical and economic viability studies related to the business purpose of the company, as well as market studies, business plans, and other related studies; participation as a partner or shareholder in other simple or business companies and in business undertakings of any nature, including partnerships, in Brazil and/or abroad; development, manufacturing, construction, purchase, sale, distribution, renting, gratuitous loan, importation, and exportation of machines and equipment for the industry, including accessories, parts, and other materials that are necessary in order to obtain ecologically efficient products for generating energy; and rendering services for the assembly, maintenance, and technical assistance of machines and equipment for the generation of energy.

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-46.000000	0.000000	0.00	Market Value (12/31/2012)	
12/31/2011	37.000000	0.000000	0.00		
12/31/2010	15.120000	0.000000	0.00	Book Value (12/31/2012)	R\$ 146,000,000.00

Develop systems for the generation of energy.

Reasons for buying and holding that participation

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Vale Fertilizantes S.A.	33.931.486/0001-30		Controlled	Brazil	SP	São Paulo	100.000000

Description of activities The purpose of Vale Fertilizantes S.A. (Company), formerly known as Mineração Naque S.A. (Naque), which new name was approved by the Shareholders Meeting held on May 15, 2012, is mining activity in general, the use of mineral deposits in domestic and foreign lands, by research, extraction, processing, concentration, industrialization, transportation, shipping, and sale of goods for animal nutrition, chemical products, input of above mentioned products and other agriculture and cattle-raising products, as well as activities arising out of the development of the production, industrialization, and sale of such products and

Table of Contents

others.

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	7.000000	0.000000	0.00	Market Value (12/31/2012)	
12/31/2011	15.000000	0.000000	0.00		
12/31/2010	0.000000	0.000000	0.00	Book Value (12/31/2012)	R\$ 13,602,000,000.00

Reasons for buying and holding that participation Conduct and promote Vale business in the fertilizer segment.

Corporate Name	CNPJ (Corporate Tax ID)	CVM Code	Type of Corporation	HQ - Country	HQ - State	HQ - Municipality	Issuer participation (%)
Biopalma da Amazonia S.A.	08.581.205/0001-10		Controlled	Brazil	PA	Belém	70.000000

Description of activities Biopalma is a privately-owned corporation which main activities relate to palm oil and other vegetables and extraction, processing, and sale of their oils

Business Year	Book Value variation (%)	Market Value variation (%)	Amount of dividends received (Reais)	Date	Value
12/31/2012	-21.000000	0.000000	0.00	Market Value (12/31/2012)	
12/31/2011	0.000000	0.000000	0.00		
12/31/2010	0.000000	0.000000	0.00	Book Value (12/31/2012)	R\$ 349,000,000.00

Reasons for buying and holding that participation Explore the palm oil production complex located in the State of Pará.

Table of Contents

9.2 Other Relevant Information

As of December 31, 2012, Vale considered as intangibles of Intellectual Property a total of 7,613 processes throughout the world, in a total of 160 countries (358 patents in Brazil and 2,375 abroad; 913 trademark processes in Brazil and 1,529 abroad; and 1,790 domain names in Brazil and 603 abroad; and 45 software programs in Brazil).

Table of Contents**10.1. General Financial and Equity Conditions****a. General Financial and Equity Conditions**

2012 was a very challenging year for the world's economy, which, amidst a cloud of uncertainties, grew below the long-term trend for the second consecutive year. One of the consequences of the adverse macroeconomic scenario was the general drop in the price of minerals and metals, with the exception of gold, a very valuable metal whose prices are influenced by other factors. The iron ore price became very volatile, showing great low volatility particularly in the third quarter.

In this context, our financial performance was negatively affected. The financial indices dropped significantly relative to 2001, a year in which Vale S.A. (Vale or Company) reached its best financial performance since it was established in 1942. The basic net profit reached R\$ 22.2 billion(2), against R\$ 39.2 billion in 2011, and the adjusted EBIDTA was R\$ 37.4 billion(3), thus reduced by 33.5%, although it is still the third largest in our history. The reduction came primarily from lower 2012 prices, which had a negative impact of R\$ 22.8 billion on the EBIDTA.

In 2011, Vale S.A. (Vale) had strong performance, characterized by record net operating revenues (R\$ 102.0 billion), operating income (R\$ 50.4 billion), operating margin (49.4%), cash generation (R\$ 56.3 billion) and net income (R\$ 37.8 billion).

The year 2010 was marked by strong recovery with extraordinary performance, due to two main factors. On one hand, the initiatives developed in 2009 in response to the global recession, focusing on structural transformations, started to present returns. On the other hand, the global economy, led by the emerging companies, which are the main source of expansion of demand for ores and metals, showed exceptional growth.

In 2012, our shareholders received dividends in the amount of US\$ 6.0 billion, the second largest in Vale's history and one of the largest for all global mining companies. Several measures have been taken to minimize the need for working capital, aiming at generating more resources to finance projects and increase capital management. Initiatives to permanently reduce cost structure are being actively pursued, but it will require some time before material changes are observed.

Bulk materials sales – iron ore, pellets, manganese ore and ferroalloy, thermal and metallurgical and coal – represented 73.7% of total net operating revenues in 2012 relative to 75.7% in 2011. Participation of basic metals in total net revenues was 14.9%, relative to 15.8% and 17.3% in 2011 and 2010, respectively. Revenues from fertilizers in 2012 were 7.5% above the 5.4% and 3.6% in 2011 and 2010, respectively. Logistics services contributed with 2.9% of the total net operating revenue in 2012, and other products, with 1.0%.

Business segments	2010	2011	2012
Bulk Materials	75.5%	75.7%	73.7%
Basic Metals	17.3%	15.8%	14.9%
Fertilizers	3.6%	5.4%	7.5%
Logistics services	2.6%	2.3%	2.9%
Others	0.9%	0.8%	1.0%

In 2012, operating profit, measured by the adjusted EBIT(4) reached R\$ 28.105 billion, 41.4% less than the R\$ 47.925 billion in 2011 (corresponding to R\$ 37.50 billion in 2010). The adjusted operating margin during the year reached 30.1%, relative to 47.0% in 2011 (47.0% in 2010).

(2) Net profits excludes non-cash and non-recurrent effects

(3) Adjusted EBIDTA excluding non-recurrent effects.

(4) EBIT excluding non-recurrent effects.

Table of Contents

In 2012, the company reached a cash generation, measured by adjusted EBITDA of R\$ 37.434 billion, 33.5% lower than the previous year, which was R\$ 56.329 billion (relative to R\$ 43.537 billion in 2010).

Adjusted EBITDA

in R\$ million	2010	2011	2012
Net Operating revenue	80,677	102,019	93,511
Adjusted EBIT	37,950	47,925(1)	28,105(1)
Adjusted EBIT margin (%)	47.0%	47.0%(1)	30.1%(1)
Adjusted EBITDA	43,537	56,329(1)	37,434(1)
Net profit of the year	30,422	37,408	9,233
Remuneration to shareholder (parent company)	5,095	15,053	11,595
ROE (%) ⁽²⁾	25.9%	25.5%	5.9%

(1) Excludes non-recurring effects

(2) Return on equity

EBITDA

In R\$ millions	2010	2011	2012
Net profit for the year	30,070	37,408	9,233
Income tax and social contribution	6,437	8,514	(2,641)
Net finance results	2,831	6,352	8,405
Result from participation in associated companies	(1,962)	(1,857)	(1,241)
Reduction on investments recoverable value			4,002
Result from discontinued operations	222		
EBIT (Earnings Before Income and Taxes)	37,950	50,417	17,758
Depreciation, amortization, and depletion	5,440	6,638	8,397
EBITDA (Earnings Before Income, Taxes, Depreciation, and Amortization)	43,390	57,055	26,155

Adjusted EBITDA reconciliation

In R\$ millions	2010	2011	2012
EBITDA	43,390	57,055	26,155
Dividends	147	1,766	932
(Gain) loss in assets sales	0	(2,492)	1,036
Reduction in assets recoverable value (Impairment)	0		8,211
CFEM	0		1,100

Adjusted EBITDA	43,537	56,329	37,434
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b. Capital Structure

Vale's shareholders' equity on December 31, 2012 was R\$ 155.633 billion. On the same date, the gross debt added was R\$ 61.856(5) billion, with a cash position of R\$ 11.918 billion. The gross debt index and obligations with third parties /shareholders' equity and participation of non-controlling shareholders was 39.7% compared to 29.4% on December 31, 2011, and 35.2% on December 31, 2010.

On December 31, 2011, net shareholders' equity was R\$ 146.681 billion, gross debt totaled R\$ 43.072billion, and the cash position was R\$ 6.593 billion.

On December 31, 2010, shareholders' equity was R\$ 116.326billion, gross debt was R\$ 40.918 billion, and the cash position was R\$ 12.636 billion.

(3) Includes cash and cash equivalents and investments of up to 90 days.

Table of Contents

i. Hypotheses of Redemption

ii. Redemption Value Method

Vale's by-laws do not authorize the application of profits or reserves to redeem or amortize shares. Additionally, on the date of this Reference Form, Vale's Management does not intend to call a Special Shareholders' Meeting for this purpose.

c. Payment Capacity in Relation to the Financial Commitments Assumed

(1) Vale enjoys a healthy financial position, supported by strong cash generation, ample liquidity, availability of short- and long-term credit facilities, and a portfolio of debt with low risk. This position gives us the capacity to easily pay our financial commitments.

(2) The leverage, measured by the ratio of total debt/adjusted(6) EBITDA, increased to 1.7x on December 31, 2012, compared to 0.8x on December 31, 2011 and 0.9x on December 31, 2010.

(3) For more information on the EBITDA and adjusted EBITDA reconciliation, see item 10.1(a) above.

(4) The total debt/EV(7) ratio was equal to 22.5% on December 31, 2012, while the index of interest coverage, measured by the indicator EBITDA/payment of interest, was 14.5x on December 31, 2012.

in R\$ million	2010	2011	2012
Gross debt	40,917	43,072	61,856
Cash position *	12,636	6,593	11,918
Net debt	28,282	36,479	49,938

* Includes cash and investments up to 90 days.

d. Source of financing for working capital and investments in non-current assets

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The sources of funds utilized by Vale were generation of operating cash, loans and financing, and issue of bonds and securities, convertible or not, launched in the capitals market.

Operating activities generated cash flows of R\$ 33.081 billion in 2012, compared with R\$ 39.689 billion in 2011, and R\$ 31.409 billion in 2010. Operating cash flows grew significantly in recent years until 2008, driven by the growth in sales volume and by the high of prices of our products. In 2009, this cycle of growth was interrupted as a result of negative effects of the global recession on the prices and volumes of sales. In 2010, growth was resumed and the strong recovery of demand reflected positively on the price. Performance in 2011 was driven by higher prices and by the recovery of volumes sold. In 2012, reduction was determined mainly by price drops.

Among other more relevant operations in the three-year period, the following are highlighted:

- In October 2012, Vale issued a credit note to exports in the amount of R\$ 2.5 billion at a Brazilian commercial bank for 10 years. The amount was fully disbursed until December 21, 2012.
- In September 2012, Vale priced the offer of US\$ 1.5 billion (equivalent to R\$ 3.1 billion) in bonds. The bonds have a yearly coupon rate of 5.625%, paid biannually, and they were priced at 99.198% of the bond's face value. The bonds matures in September 2042 and were issued with a 300 basis point spread on US Treasury bonds, resulting in a yearly yield of 5.681% for the investor.

(6) Excluding non-recurrent items

(7) EV, *enterprise value*, equals the sum of the company's market capitalization with the net debt.

Table of Contents

- In September 2012, the National Bank for Economic and Social Development (BNDES) approved a financing contract in the amount of R\$ 3.9 billion to Vale, for the implementation of the CLN 150 Mtpa project, whose purpose is to expand to 150 million annual tons the iron ore transport and shipping capacity of Vale's Northern System, which encompasses the Carajás Railroad (EFC) and the Ponta Madeira rail and sea terminals, in the states of Pará and Maranhão. The financing disbursement will be made according to the project's execution chronogram. By December 31, 2012 Vale had disbursed US\$ 1.0 million (the equivalent to R\$ 2 billion) from this credit line
- In August 2012, Vale International signed an export pre-payment contract with a commercial bank in the amount of US\$ 150 million (equivalent to R\$ 307 million), with maturity 5 years after the disbursement. By December 31, 2012 Vale International had fully disbursed the credit line.
- In July 2012, Vale priced the 750 million (equivalent to R\$ 1.9 billion) bonds offer at 10.5 years. Vale will use the net resources from this offer for general corporate purposes. The notes maturing in 2023, in the amount of 750 million (equivalent to R\$ 1.9 billion) have a coupon rate of 3.75% per year, paid annually, and they were priced at 99.608% of the bond's face value. The bonds mature on January 10, 2023, and they have been issued with a 180 basis points spread over the mid-swap, or a 225.7 basis points spread over the German Bund's return bonds, resulting on an annual yield of 3.798% for the investor.
- In April 2012, Vale priced the bonds offer of its full subsidiary Vale Overseas Limited (Vale Overseas) at US\$ 1.250 billion (equivalent to R\$ 2.6 billion), guaranteed by Vale. The bonds are consolidated and form a single series, with Vale Overseas bonds issued on January 11, 2012, of US\$ 1 billion (equivalent to R\$ 2.0 billion) with a 4.375% coupon rate and maturity in 2022. Bonds issued in April will have an annual 4.375% coupon rate, paid biannually, at 101.345% of the bond's face value. These bonds mature in January 2022 and they have been issued with a 200 basis points spread over US Treasury bonds, resulting in an annual yield of 4.205% to the investor.
- In January 2012, Vale priced the bonds offer of its full subsidiary Vale Overseas Limited (Vale Overseas) at US\$ 1 billion (equivalent to R\$ 2 billion). The bonds have an annual 4.375% coupon rate, paid biannually, at 98.804% of the bond's face value. These bonds mature in January 2022 and they have been issued with a 225 basis points spread over US Treasury bonds, resulting in an annual yield of 4.525% to the investor.
- In August 2011, Vale signed an agreement with commercial banks with the support of the Korean Trade Insurance Corporation (K-SURE), in order to finance the acquisition of five shipments of large-scale ore and two capesize ships. The total amount contracted was US\$ 528 million (equal to R\$ 1.1 billion), and the funds will be disbursed according to delivery of the ships. By December 31, 2012, Vale had disbursed US\$ 409 million (equal to R\$ 836 million) from this line of credit and the remaining share of the credit line was cancelled.
- In January 2011, Vale signed an agreement with some commercial banks with the guarantee of the official Italian credit agency Servizi Assicurativi Del Commercio Estero S.p.A (Sace) to provide a line of credit of US\$ 300 million (equivalent to R\$ 613 million) for 10 years. The full amount of this line of credit was used by Vale in 2011.

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- In October 2010, Vale signed an agreement with Export Development Canada (EDC), the official credit agency for exports from Canada, to finance the package of Vale's Investments Program. According to the contract, EDC provides a line of credit for up to US\$ 1.0 billion (equivalent to R\$ 2.0 billion). The amount of US\$ 500 million (equivalent to R\$ 1.0 billion) will be available for investment operations in Canada, the remaining US\$ 500 million (equivalent to R\$ 855.6 million) is available for financing Vale's purchases from Canadian companies for the supply operations outside of Canada. By December 31, 2012, Vale had used US\$ 975 million (equivalent to R\$ 1.0 billion [sic]) of this line of credit.

- In September 2010, Vale issued US\$ 1.75 billion (equivalent to R\$ 3.6 billion), with US\$ 1.0 billion (equivalent to R\$ 2.0 billion) in bonds maturing in 2020 and a coupon rate of 4.65%, with semi-annual payments and US\$ 750 million (equivalent to R\$ 1.6 billion) through the reopening

Table of Contents

of the 2039 bond, with yield to the investor of 6.074%. The 2039 bond is part of the US\$ 1.0 billion (equivalent to R\$ 2.0 billion) bond issued in November 2009.

- In September 2010, Vale signed a contract with The Export-Import Bank of China and the Bank of China Limited to finance the construction of 12 ships, with capacity of 400,000 dwt, for the total amount of up to US\$ 1.229 billion (equivalent to R\$ 2.5 billion). The financing has a total period for payment of 13 years and Vale will receive the funds over the next three years according to the ship construction schedule. By December 31, 2012, US\$ 837 million had been disbursed (equivalent to R\$ 1.7 billion) from this line of credit.
- In June 2010, Vale entered into an agreement with the National Bank for Economic and Social Development (BNDES) for some lines of credit totaling R\$ 774 million, to finance the acquisition of certain equipment. In March 2011, Vale increased that line of credit through a new agreement with the BNDES in the amount of R\$ 103 million. By December 31, 2012, R\$ 700 million had been disbursed from those lines of credit.
- In June 2010, Vale signed an export pre-payment financing agreement in the amount of US\$ 500 million (equivalent to R\$ 1.0 billion) with maturity in 10 years.
- In March 2010, Vale raised 750 million (equivalent to R\$ 1.9 billion) through eight-year Eurobonds at the price of 99.564% of their face value. The notes maturing in March 2018 have a coupon of 4.375% per year, paid annually.

e. Potential sources of financing used for working capital and for investments in non-current assets for coverage of liquidity deficiency

In the regular course of business, Vale's principal need for funds refers to capital investments, payments of dividends and debt service. The sources of funds frequently used are operating cash flow and financing.

Moreover, the main sources of financing to cover liquidity deficiency are the facilities related to the export transactions offered by local banks (Advance on Foreign Exchange Contract - ACCs, and Advance on Delivered Exchange Instruments - ACEs).

Vale has, moreover, revolving lines of credit available that may be used at the option of the debtor. On December 31, 2012, the amount available involving lines of credit was US\$ 3.0 billion (equivalent to R\$ 6.1 billion) that may be used by Vale, Vale Canada Ltd. (Vale Canada), and Vale International S.A. (Vale International). By December 31, 2012, Vale had not used any of this credit.

f. Indebtedness levels and composition of such debts

On December 31, 2012, the total debt was R\$ 61.856 billion, with a tranche of R\$ 2.963 billion guaranteed by Vale's assets, with an average maturity period of 10.14 years and an average cost of 4.6% per year in US dollars.

DEBT STRUCTURE

In R\$ million	2009	2010	2011
Gross debt	40,917	43,072	61,856
Tranche guaranteed by assets of Vale	40%	4%	45%
Average term of maturity (in years)	9.6	9.8	10.14
Average cost (in US dollars)	4.9%	4.8%	4.6%

Since July 2005, Vale has been considered investment grade. Vale currently has the following credit risk ratings: A- (Standard & Poor's), Baa2 (Moody's), BBB high (Dominion Bond Ratings) and BBB+ (Fitch).

Table of Contents

i. Relevant loan and financing contracts

Short-term debt consists principally of financing for exports (trade financing) and imports expressed in US dollars, with financial institutions. On December 31, 2012, there was no open short-term debt, relative to the R\$ 40 million and R\$ 232 million in 2011 and 2010, respectively.

The most important categories of the long-term debt are presented below. The values presented include the short-term portion of the long-term debt and exclude the accumulated costs.

- *Loans and financing expressed in US dollars (R\$ 8.1 billion, R\$ 6.0 billion, and R\$ 8.1 billion on December 31, 2012, 2011 and 2010, respectively).* These loans include credit facilities for exports, financing imports from the export credit agencies and loans from commercial banks and multilateral organizations. The main credit facility is a prepayment for exports linked to future exports, originally in the amount of US\$ 6.0 billion (equivalent to R\$ 12.3 billion), raised as part of the refinancing of the debt for the acquisition of Inco, now Vale Canada. On December 31, 2012, the outstanding balance was US\$ 400 million (equivalent to R\$ 817 million)
- *Fixed income instruments expressed in US dollars (R\$ 27.8 billion, R\$ 19.6 billion, and R\$ 17.1 billion on December 31, 2012, 2011 and 2010, respectively).* Vale issued several debt securities in the capital market, inclusive through its wholly owned subsidiary Vale Overseas in the total amount of US\$ 12.9 billion (equivalent to R\$ 26.4 billion). The subsidiary Vale Canada issued debt securities in the amount of US\$ 700 million (equivalent to R\$ 1.4 billion).
- *Fixed income instruments in euros (R\$ 4.0 billion, R\$ 1.8 billion and R\$ 1.7 billion on December 31, 2012, 2011 and 2010, respectively).* Vale issued debt securities in the capital market in the total amount of 1.5 million (equivalent to R\$ 4.0 billion).
- *Non-convertible debentures expressed in reais (R\$ 4.8 billion, R\$ 4.7 billion and R\$ 4.7 billion on December 31, 2012, 2011, and 2010 and 2009, respectively).* In November 2006, the Company issued non-convertible debentures in the amount of approximately US\$ 2.7 billion (equivalent to R\$ 5.5 billion), in two series, maturing in four and seven years. The first series of US\$ 734 million (equivalent to R\$ 1.5 billion), expired in 2010, with interest of 101.75% on the accumulated variation of the interest rate of the CDI (interbank deposit certificate). The second series of US\$ 2.0 billion (equivalent to R\$ 4.0 billion), maturing in 2013, has interest that varies from the CDI plus 0.25% per year.

ii. Other long-term relationships with financial institutions

Vale and its associated and subsidiary companies have a commercial relationship in the normal course of their business with some of the main financial institutions in the country, according to regular financial market practices.

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Other debts totaled R\$ 16.3 billion, R\$ 10.4 billion, and R\$ 8.4 billion on December 31, 2012, 2011 and 2010, respectively. The Company has several loans contracted in Brazil, especially with the BNDES and some Brazilian private banks, in addition to loans and financing in other currencies.

iii. Degree of subordination among debts

There is no degree of contractual subordination among the Company's unsecured financial debts. Financial debts that are secured through collateral have the privileges and prerogatives granted by the law.

Additionally, considering the total of current and non-current liabilities of the Company, the R\$ 108,328 million or 97.3 %, corresponded to unsecured debts on December 31, 2012 (compared to R\$ 93,188 million or 98.0% on December 31, 2011 and R\$ 98,032 million, or 99.7% on December 31, 2010). Such amounts are subject to the preference of Company obligations that appear as collateral, including

Table of Contents

mortgage of assets and others totaling, on December 31, 2012, the amount of R\$ 2,962 million or 2.7% (compared to R\$ 1,902 million or 2.0% on December 31, 2011 and R\$ 305 million or 0.3% on December 31, 2010) of the total of current and non-current liabilities of the Company.

iv. Any restrictions that might be imposed on the issuer in particular, in relation to limits of indebtedness and contracting the company's debts, the distribution of dividends, the disposal of assets, the issue of new securities and the transfer of corporate control

Some long-term financial instruments contain obligations related compliance with financial indicators. The main indicators are: (i) debt on Earnings Before Interest Tax, Depreciation and Amortization (EBITDA), and (ii) interest coverage. Vale is in conformity with the levels required for the indicators. It is believed that the current clauses will not significantly restrict the capacity to contract new debts to meet capital needs. Additionally, no clause directly restricts the ability to distribute dividends or interest on own equity. For more information on these financial indices, please see item 3.7 of this Reference Form

g. Limits of use of financing already contracted

Certain financing contracts signed by Vale establish restrictions in connection with the use of funds. The following is a description of the relevant financing contracts:

Date	Counterparty	Allocation		Value	Percentage Used	Disbursement of funds
12/20/2012	BNDES	Credit to finance VLI Multimodal Equipment	R\$	90.99 million	0%	Credit is provided in tranches according to the project schedule
12/19/2012	Banco do Brasil	Credit to finance VLI Multimodal Equipment	R\$	90.99 million	0%	Credit is provided in tranches according to the project schedule
10/19/2012	BNDES	Credit to finance Vale Fertilizantes Project	R\$	88.63 million	100%	Credit is provided in tranches according to the project schedule
09/24/2012	BNDES	Credit to finance CLN150 Project	R\$	3.88 million	54%	Credit is provided in tranches according to the project schedule
8/04/2011	Banco Bilbao Viscaya, Banco Santander, BNP Paribas, Citibank Europe, Credit Agricole, HSBC, Natixis, and Societé Generale	Credit to finance the acquisition of ships with the Korean shipbuilders Daewoo and Sungdong	R\$	1.079 billion	77%	The credit was provided in tranches according to the ship delivery schedule, and the remaining unused balanced was cancelled
11/23/2010	BNDES	Supplementation of funds related to implementation of the Estreito Hydroelectric	R\$	208.03 million	94%	The credit is provided in tranches according to the project schedule

Table of Contents

10/27/2010	BNDES	Credit allocated to financing of equipment and expansion of production capacity	R\$ 246.6 million	91%	The credit is provided in tranches according to the project schedule
9/09/2010	Exim Bank of China Limited	Credit allocated to financing for the acquisition of ships from the shipbuilder Rongsheng	R\$ 2.511 billion	68%	The credit is provided in tranches according to the schedule of payments contemplated in the construction contract
6/30/2010	Banco do Brasil(8)	Credit allocated to financing equipment	R\$ 57.2 million	84%	The credit is provided in tranches according to the project schedule
6/30/2010	Banco do Brasil	Credit allocated to financing equipment	R\$ 16.8 million	70%	The credit is provided in tranches according to the project schedule
6/30/2010	Banco do Brasil	Credit allocated to financing equipment	R\$ 59.8 million	100%	The credit is provided in tranches according to the project schedule
6/30/2010	Banco do Brasil	Credit allocated to financing equipment	R\$ 17.8 million	79%	The credit is provided in tranches according to the project schedule
6/30/2010	Banco Santander and Banco Bradesco	Credit allocated to financing equipment	R\$ 135.1 million	85%	The credit is provided in tranches according to the project schedule
6/30/2010	Banco do Brasil	Credit allocated to financing equipment	R\$ 175.8 million	96%	The credit is provided in tranches according to the project schedule
6/29/2010	BNDES	Credit allocated to financing equipment	R\$ 135.1 million	85%	The credit is provided in tranches according to the project schedule
6/29/2010	BNDES	Credit allocated to financing equipment	R\$ 175.8 million	96%	The credit is provided in tranches according to the project schedule
4/01/2008	BNDES	Credit allocated to investments made in Brazil	R\$ 7.3 billion	49%	The credit is provided in tranches according to the project schedule
3/11/2008	BNDES	Credit allocated to construction of the Estreito Hydroelectric Plant, its transmission lines and several social investments	R\$ 808.4 million	100%	The credit is provided in tranches according to the project schedule

(8) This contract, originally with Banco Votorantim, was transferred to Banco do Brasil in October 2011.

Table of Contents**h. Significant alterations in each item of the financial statements****Analysis of Operating Results, 2012 vs. 2011**

The table below presents the values for the consolidated income statements for the fiscal years ended December 31, 2011 and December 31, 2012:

	Income statements ended on December 31 (in R\$ billions)		
Income Statement	2011	Variation (%)	2012
Net Operating Revenues	102,019	(8.3)%	93,511
Cost of products and services	(42,451)	22.5%	(51,997)
Administrative and sales expenses	(3,985)	9.9%	(4,381)
Research and development	(2,822)	3.2%	(2,912)
Other expenses	(4,836)	49.2%	(7,216)
Reduction of assets recoverable value			(8,211)
Gain in the realization of assets available for sale	(2,492)	(141.6)%	(1,036)
Operating Revenues	50,417	(64.8)%	17,758
Result of corporate participations	1,857	(33.2)%	1,241
Net financial result	(6,352)	32.3%	(8,405)
Reduction of investments recoverable value			(4,002)
Income before income tax and social contribution	45,922	(85.6)%	6,592
Income tax and social contribution	(8,514)	131.0%	2,641
Income (loss) of non-controlling shareholders	0,406	23.4%	0,501
Net Income attributed to controlling shareholders	37,814	(74.3)%	9,734

Income statements from year ended December 31, 2011, compared to the year ended December 31, 2012**Revenues**

Net operating revenues were R\$ 93.511 billion in 2012, compared with R\$ 102.019 in 2011, an increase of 8.3% over 2011.

In 2012, the drop in revenues was basically due to prices dropping, which contributed to the reduction in revenues with R\$ 6.099 billion.

Table of Contents

Iron ore

Revenues from sales of iron ore dropped 13.2%, from R\$ 61.035 billion in 2011 to R\$ 52.959 billion in 2012, due to the average sale price drop.

Pellets

Revenues from pellet sales dropped 3.7%, from R\$ 13.270 billion in 2011, to R\$ 12.778 billion in 2012, due to the 11% drop in market price. The same effect was observed in iron ore, which was partially offset by an increase in 8.4% of volumes sold due to a ramp-up in our Omã operations.

Manganese ore and ferroalloy

Revenues from manganese and ferroalloy sales dropped 6.3%, going from R\$ 1.126 billion in 2011 to R\$ 1,055 billion in 2012. Due to the sales of ferroalloy operations in Europe, the manganese sales for these locations have been accounted. Thus, the volumes of manganese increased 69.1% while the volume of ferroalloy decreased by 30.8%.

Coal

Revenue from coal sales increased 17.5%, from R\$ 1.795 billion in 2011 to R\$ 2.109 billion in 2012, due to an increase of 4.2% in volume sold as a consequence of the increase in production in Mozambique, partially compensated by the sales of assets in Colombia. The average price increase of 13.3% resulted from an increase in volume of metallurgic coal sold as a consequence of the Mozambique mine development and of the sales of thermal coal assets in Colombia.

Basic Metals

Nickel and other products

There was a 14.3% drop in revenues from sales of these products, from R\$ 13.596 billion in 2011 to R\$ 11.657 billion in 2012, mainly due to

(i) the 8.2% price drop and a reduction of 8.6% in nickel volume sold due to the Sudbury shutdown which occurred in the first quarter of 2012; and,

(ii) the 15.2% drop in copper volumes sold due to the Sudbury shutdown, which was partly offset by the 7.9% increase in average sale price.

Copper

Revenues from sales of copper increased 23.6%, from R\$ 1.842 billion in 2011, to R\$ 2,276 billion in 2012, due to the 10.6% increase in volume sold as a result of the onset of operations at Salobo, partially offset by the 6.2% drop in average sale price.

Fertilizers

Potash

Revenues from potash sales increased 24.5%, from R\$ 457 million in 2011, to R\$ 569 million in 2012, due to the 22.7 increase in average sale price and the 2.3% increase in volumes sold.

Phosphate

Revenues from phosphate sales increased 26.4%, from R\$ 3.898 billion in 2011, to R\$ 4,926 billion in 2012, reflecting the 12.3% increase in volume resulting from the ramp-up in phosphate rock operations in Bavóvar, in Peru, and the 13.1% price increase due to exchange rate variation.

Nitrogen

Sales revenues from nitrogen increased 20.2%, from R\$ 1.136 billion in 2011, to R\$ 1.366 billion in 2012, reflecting average sale prices increase of 13.9%.

Table of Contents

Logistics services

Revenues from logistics services increased 14.5%, from R\$ 2.367 billion in 2011 to R\$ 2,710 billion in 2012.

Other products and services

Revenues from other products and services increased 19.1%, from R\$ 805 million in 2011 to R\$ 959 million in 2012. This occurred mainly because of the higher revenues from energy products.

Costs of Products and Services

Costs related to services and goods sold by Vale are detailed below:

Comments on Cost by Type of Product

The total cost of products and services totaled R\$ 51.997 billion in 2012, compared with R\$ 42.451 billion in 2011, an increase of 22.5%. The impact was mainly due to: (a) higher maintenance cost and improvements in iron ore, pellets and nickel and by the increase in volumes produced in the fertilizer and copper operations (beginning of Salobo operation), partially offset by the (c) drop in basic metals volumes sold.

- Outsourced services. The cost of outsourced services increased 31.2% in 2012, from R\$ 7.107 billion in 2011, to R\$ 9.325 billion in 2012, reflecting increases in maintenance expenses in the nickel operations.
- Materials costs. Materials costs increased by 32.9% in 2012, from R\$ 6.276 billion in 2011, to R\$ 8.341 billion in 2012, mainly due to maintenance expenses in the nickel and iron ore operations, as well as more expenses with the purchase of ammonia and urea used in the fertilizer activities, due to prices.
- Costs of energy and fuels. Energy and fuel costs increased 10.7% in 2012, from R\$ 5.184 billion in 2011 to R\$ 5,739 billion in 2012, due to price increase.

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- Personnel costs. Personnel costs increased 31.7%, from R\$ 5.269 billion in 2011, to R\$ 6.937 billion in 2012, reflecting the increase in number of employees due to the increase in activities, the 8% adjustment of salaries paid in Brazil, and bonds payment made biannually to employees working in remote areas.
- Acquisition of products. The cost of products purchased from third parties decreased 30.1%, from R\$ 3.887 billion in 2011, to R\$ 2.718 billion in 2012, mainly due to the reduction in nickel's purchase volume and the purchase price drop in iron ore and pellets from third parties.
- Depreciation and depletion. The cost of depreciation and depletion increased 24.0%, from R\$ 5.980 billion in 2011, to R\$ 7.413 billion in 2012, mainly reflecting the beginning of production of Salobo.
- Other costs. Other costs increase 31.7%, from R\$ 8.748 billion in 2011 to R\$ 11.524 billion in 2012, mainly sure to the cost of shipping freight.

Table of Contents

Sales and administrative expenses

Sales and administrative expenses increased 9.9%, rising from R\$ 3.985 billion in 2011 to R\$ 4.381 billion in 2012. The increase is mainly due to (a) greater expenses with personnel, reflecting the 8% increase in salaries due to the collective bargaining agreement of our Brazilian employees and (b) increase in services expenses.

Research and development expenses

Research and development expenses grew 3.2% over 2010, rising from R\$ 2.822 billion in 2011 to R\$ 2.912 billion in 2012. The relatively stable R&D level was due to maintenance expenses to create long-term growth opportunities.

Asset impairment

Impairment in 2012 in the amount of R\$ 8.211 billion refers mainly to the estimate loss for nickel plants for cash flow in the amount of R\$ 5.770 billion, cost increase, market price reduction and production reduction, among other factors, in coal plants in Australia in the amount of R\$ 2.139 billion. In 2011, there was no impairment.

Other operating costs and expenses

Other operating expenses increased from R\$ 4.836 billion in 2011, to R\$ 7.216 billion in 2012, a 49.2% increase, due to the provision for contingencies CFEM (Financial Compensation for the Exploration of Mineral Resources) and the provision for ICMS losses and pre-operating expenses, in addition to pre-operating expenses and idle capacity at VNC and Onça Puma, which have significantly increased since 2011.

Result from sale of assets

In 2011, the Company had revenues of R\$ 2.492 billion from asset sales, relative to expenses of R\$ 1.036 billion in 2013. The gain was due to the sale of aluminum assets in 2011, and the loss is referent to the (a) sales of fertilizer assets Araucária company (R\$ 269 million), (b) sales of manganese ferroalloy operations in Europe (R\$ 45 million), and (c) sales of coal assets (R\$ 722 million).

Result from Corporate Participations

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The result from corporate participations decreased 33.2%, from R\$ 1.857 billion in 2011 to R\$ 1.241 billion in 2012, mainly due to the (a) drop in sales price for pellets negotiated by Samarco, (b) lower revenues from the Itabasco and Nibrasco leasing, and (c) results from the Norsk Hydro operations.

Net Financial result

The net financial expenses were R\$ 8.405 billion in 2012, relative to the financial expenses of R\$ 6.352 billion in 2011. The main factor contributing to the negative result was the increase in the monetary and exchange rate variations recorded in 2012 on the Company's loans, the drop in financial revenues due to the annual average cash reduction and derivative losses, as well as expenses in the debentures market participations marks.

Reduction of the investments recoverable value

The reduction reported for 2012 in the amount of R\$ 4.002 billion had an impact on our investment in Norsk Hydro (R\$ 2.026 million), in Thyssenkrupp CSA (R\$ 1.804 billion), and in the Vale Soluções em Energia (R\$ 172 million). In 2011, no investment recoverable value was reported.

Table of Contents***Income Taxes and Social Security Contributions***

In 2012, we recorded a tax expense on net income of R\$ 2.641 billion, compared to R\$ 8.514 billion in 2011, basically due to the lower tax base used to calculate taxes due to the reversal in deferred liability as a result of Vale Fertilizantes incorporation operations, and the amount of tax reduction from the assets recoverable value. The effective tax was lower last year, in addition to the fertilizer reversal operation, due to the payment of dividends and interest over its own capital.

Net income attributed to controlling shareholders

The 74.3% drop in net income, from R\$ 37.814 billion in 2011 to R\$ 9.734 billion in 2012, was mainly due to the factors explained above, with greater impact from the reduction of assets recoverable values.

Analysis of equity accounts

In R\$ millions

	2011	Variation %	2011
Assets			
Current Assets			
Cash and cash equivalents	6,593	80.8	11,918
Short-term investments		n.m.	506
Derivatives at fair price	1,112	(48.3)	575
Accounts Receivable	15,889	(12.6)	13,885
Related parties	154	410.4	786
Inventory	9,833	5.0	10,320
Taxes to be refunded	4,190	10.3	4,620
Advances to suppliers	733	(28.6)	523
Others	1,647	19.8	1,973
Non-current assets held for sale		100.0	935
	40,151	14.7	46,041
Non-current			
Related Parties	904	(7.9)	833
Loans and financing	399	25.8	502
Legal deposits	2,735	13.2	3,095
Income tax and social sec. payments deferred	3,539	129.8	8,134
Taxes to be refunded	1,097	22.4	1,343
Derivatives at fair price	112	(17.0)	93
Deposit for incentives and reinvestment	429	(23.8)	327
Others	1,095	12.7	1,234
	10,310	50.9	15,561
Investments	14,984	(12.9)	13,044

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Intangibles	17,798	5.8	18,822
Fixed Assets	153,855	12.7	173,455
	196,938	12.2	220,882
Total Assets	237,089	12.6	266,923

Table of Contents

	2011	Variation %	2012
Liabilities and shareholders equity			
Current liabilities			
Accounts Payable to suppliers and contractors	8,851	4.6	9,255
Salaries and employment taxes	2,442	23.9	3,025
Derivatives at fair price	136	422.1	710
Portion of long-term current loans	2,807	152.7	7,093
Loans and financing	40		
Related Parties	43	883.7	423
Taxes, contributions and royalties	979	(32.2)	664
Income tax provision	955	37.2	1,310
Pension and retirement benefits	316	32.9	420
Payable subconcessions	123	8.1	133
Asset retirement obligation	136	5.1	143
Dividends and interest on own capital	2,207		
Others	1,650	31.4	2,168
	20,685	22.6	25,344
Liabilities related to non-current assets held for sale			327
	20,685	24.1	25,671
Non-current liabilities			
Derivatives at fair price	1,239	29.2	1,601
Loans and financing	40,225	36.1	54,763
Related Parties	171	(16.4)	143
Pension and retirement benefits	2,846	19.1	3,390
Contingency Provisions	3,145	34.1	4,218
Income tax and social sec, deferred payments	10,614	(26.9)	7,754
Provision for asset retirement	3,427	59.7	5,472
Participation Debentures	2,496	35.4	3,379
Non-controlling shareholders redeemable share	943	5.5	995
Others	4,617	(15.5)	3,901
	69,723	22.8	85,619
Shareholders Equity			
Class A preferred shares - 7,200,000,000 authorized shares with no nominal value and 2,108,579,618 (2011 2,108,579,618) issued	29,475		29,475
Common shares 3,600,000,000 authorized shares, no nominal value and 3,256,724,482 (2011 3,256,724,482) issued	45,525		45,525
Mandatorily convertible securities into common shares	360	n.m.	
Mandatorily convertible securities into preferred shares	796	n.m.	
Treasury shares 140,857,692 preferred shares (2011 181,099,814) and 71,071,482 common shares (2011 86,911,207)	(9,917)	(21.0)	(7,838)
Operating results with non-controlling shareholders	(71)	1,083.1	(840)
Result from share conversion/issuance			50
Equity valuation adjustment	220	(611.8)	(1,126)
Accumulated conversion adjustment	(1,017)	(954.7)	8,692
Profit reserves			
Accumulated profits	78,105	0.4	78,450
Total controlling shareholders equity	143,476	6.2	152,388
Non-controlling shareholders interest	3,205	1.2	3,245
Total equity	146,681	6.1	155,633
Total liabilities and equity	237,089	12.6	266,923

Table of Contents

Position on December 31, 2011 compared with the position on December 31, 2012

Vale has assets and debts referenced to different currencies, the main ones being the *real*, the US dollar and the Canadian dollar. On December 31, 2012, we had 51% of our assets related to Brazilian *reais*, 11% to US dollars, 17% to Canadian dollars and 21% to other currencies, while the majority of our debt was expressed in US dollars. Consequently, the effects of changes in exchange rates had an impact on the financial statements, especially the depreciation of the *real* by 9.4% against the US dollar between December 31, 2011 and December 31, 2012.

Current Assets

Cash and cash equivalents.

The 80.8% increase, rising from R\$ 6.593 billion on December 31, 2011 to R\$ 11.918 billion on December 31, 2012, occurred as a function of: (a) new investment options made in 2012 in the foreign market in the amount of US\$ 1.0 billion, 750 million, and US\$ 1.5 billion. The resources for these investments were made using operating activities and dividend payments as well as interest on its own capital.

Short-term investments.

On December 31, 2011 no short-term investments had been reported, while on December 31, 2012, R\$ 506.0 million were reported.

Derivatives at fair value

The decrease of 48.3% in derivatives at fair value, dropping from R\$ 1.112 billion on December 31, 2011 to R\$ 0.575 billion on December 31, 2012, essentially refers to the depreciation of the *real* against the dollar, which is the index for most of the Company's swaps that protect the debt flow in *reais*.

Accounts receivable from customers.

The reduction of 12.6%, dropping from R\$ 15.889 billion on December 31, 2011, to R\$ 13.885 billion on December 31, 2012, refers mainly to the decrease in sales over 2012 relative to 2011.

Inventories

The 5.0% increase in inventories, rising from R\$ 9.833 billion on December 31, 2011 to R\$ 10.320 billion on December 31, 2012, refers mainly to the significant increase in production due to Salobo becoming operational.

Taxes to recover or offset

The 10.3% increase in taxes to recover or to offset, rising from R\$ 4.190 billion on December 31, 2011 to R\$ 4.620 billion on December 31, 2012, refers to the values to be recovered from losses suffered by companies abroad.

Table of Contents

Non-current assets held for sale

There was no execution in 2011. On December 31, 2012, asset sales totaled R\$ 935 million, referent to the Araucária company, an operation that produces nitrogen products for Petrobras.

Non-current assets

Related Parties

The related parties balance remains stable, R\$ 904 billion on December 31, 2011 and R\$ 833 billion on December 31, 2012.

Deferred income tax and social contribution

The increase in the deferred income tax and social contribution of 129.8%, rising from R\$ 3.539 billion on December 31, 2011 to R\$ 8.134 billion in December 31, 2012, was due to the reversal of deferred income tax on the added value linked to the investment in the nickel and coal areas.

Taxes to recover or offset

The increase in taxes to recover or offset of 22.4%, which rose from R\$ 1.097 billion on December 31, 2011 to R\$ 1.343 billion on December 31, 2012, refers to advanced income tax report from Vale Canadá

Derivatives at fair price

The 17.0% reduction in derivatives at fair price, which dropped from R\$ 112 million on December 31, 2011 to R\$ 93 million on December 31, 2012, basically is due to the depreciation of the dollar against the *real*, which is the index for most of the Company's swaps, which protect the Company's debt flow.

Investments

Investments dropped from R\$ 14.984 billion on December 31, 2011 to R\$ 13.044 billion on December 31, 2012, reflecting a reduction in recoverable value (R\$ 4.002 billion) that was offset mainly by the equivalent equity R\$ 1.241 billion).

Fixed assets

The 12.7% increase in fixed assets, rising from R\$ 153.855 billion on December 31, 2011 to R\$ 173.455 billion on December 31, 2012, occurred due to projects in the iron ore, nickel, logistics and fertilizer segments.

Current liabilities

Accounts payable to suppliers and contractors

The 4.6% increase in accounts payable to suppliers and contractors, rising from R\$ 8.851 billion on December 31, 2011, to R\$ 9.255 billion on December 31, 2012, was basically due to increases with expenses with material.

Portion of liabilities of long-term loans

The 152.7% increase in the portion liabilities of long-term loans, rising from R\$ 2.807 billion on December 31, 2011 to R\$ 7.093 billion on December 31, 2012, was due to the transfer of short-term 7th issue debentures maturing in 2013.

Table of Contents

Derivatives at fair value

The increase in derivatives at fair value was 422.1%, rising from R\$ 136 million on December 31, 2011 to R\$ 710 million on December 31, 2012, basically due to the appreciation of the dollar against the *real*, which is the index for the majority of the Company's swaps that protect the Company's flow of debt.

Dividends and interest on own capital

In 2012, there was no record of proposed dividends and interest on own capital, as these were paid in full throughout the year, while in 2011, due to advances for the year 2011 made in August and October of that year, it registered a balance of R\$ 2.207 billion for payment of the dividends proposed by Vale in 2012.

Liabilities related to non-current assets held for sale

There was no execution in 2011, while in 2012 such liabilities corresponded to R\$ 327 million, due to the Araucária sale.

Non-current liabilities

Derivatives at fair value

The increase in derivatives at fair value was 29.2%, rising from R\$ 1.239 billion on December 31, 2011 to R\$ 1.601 billion on December 31, 2012, basically due to the appreciation of the dollar against the *real*, which is the index for the majority of the Company's swaps that protect the Company's flow of debt.

Loans and financing

The increase in loans and financing was 36.1%, rising from R\$ 40.225 billion on December 31, 2012 to R\$ 54.763 billion on December 31, 2012, reflecting the exchange rate variation on the debt and the investments made on foreign markets in the amount of US\$ 1.0 billion, 750 million, and US\$ 1.5 billion, a financing contract of R\$ 4 billion (US\$ 1.9 billion) from the National Bank for Economic and Social Development (BNDES), with a disbursement of R\$ 2 million, and such increase was partially offset by the transfer of short-term 7th issue debenture maturing in 2013.

Provisions for contingencies

Provisions for contingencies increase 34.1%, rising R\$ 3.145 billion on December 31, 2011 to R\$ 4.218 billion on December 31, 2012, due to the complementation of a provision in the amount of R\$ 1 billion for the Financial Compensation for the Exploration of Mineral Resources (CFEM), as a result of prognosis changes related to the deductibility costs of transport from the calculation basis.

Deferred Income tax and social security contribution

In 2012, the deferred income tax and social contribution fell 26.9%, from R\$ 10.614 billion on December 31, 2011 to R\$ 7.754 billion on December 31, 2012, due to the reversal of differed income tax from Vale Fertilizantes.

Provision with obligations for asset retirement

The increase of 59.7% in provisions with obligation for asset retirement, rising from R\$ 3.427 billion on December 31, 2011 to R\$ 5.472 billion on December 31, 2012, was due to the annual review of the estimates.

Table of Contents*Shareholder Debentures*

The 35.4% increase of shareholder debentures, from R\$ 2.496 billion on December 31, 2011 to R\$ 3.379 billion on December 31, 2012, refers to these bonds mark to market.

Shareholders' Equity of Controlling Shareholders

The shareholders' equity of the controlling shareholders increased by 6.2%, rising from R\$ 143.476 billion on December 31, 2011 to R\$ 152.388 billion on December 31, 2012. The increase in the profit reserves came from withholdings on net income.

Analysis of Operating Results, 2011 vs. 2010

The table below presents the values for the consolidated income statements for the fiscal years ended December 31, 2010 and December 31, 2011:

	On December 31 (in R\$ billions)		
Income Statement	2010	Variation (%)	2011
Net Operating Revenues	80.677	26.5%	102.019
Cost of products and services	(34.166)	24.2%	(42.451)
Administrative and sales expenses	(3.015)	32.2%	(3.985)
Research and development	(1.539)	83.4%	(2.822)
Other expenses	(4.007)	20.7%	(4.836)
Gain in the realization of assets available for sale			2.492
Operating Revenues	37.950	32.9%	50.417
Result of corporate participations	1.962	(5.4)%	1.857
Net financial result	(2.831)	124.4%	(6.352)
Income before income tax and social contribution	37.081	23.8%	45.922
Income tax and social contribution	(6.437)	32.3%	(8.514)
Discontinued Operations	(0.222)	26.5%	
Income (loss) of non-controlling shareholders	(0.352)	15.4%	(0.406)
Net Income attributable to controlling shareholders	30.070	25.8%	37.814

Year ended December 31, 2010, compared to the year ended December 31, 2011

Revenues

Net operating revenues were R\$ 102.019 billion in 2011, compared with R\$ 80.667 billion in 2010, an increase of 26.5% over 2010.

In 2011, the increase in revenues was basically due to the higher volume sold, which contributed to the increased revenues with R\$ 17.981 billion.

Table of Contents

Iron ore

Revenues from sales of iron ore rose 28.1%, from R\$ 47.643 billion in 2010 to R\$ 61.035 billion in 2011, due to the 25.1% increase in the average sale price, and 3.1% in the volumes sold.

Pellets

Revenues from pellet sales increased 26.2%, from R\$ 10.516 billion in 2010, to R\$ 13.270 billion in 2011, due to the 14.4% variation in the average sale price for pellets and to the 15.0% increase in volumes sold.

Manganese ore and ferroalloy

Revenues from manganese and ferroalloy sales decreased 23.0%, from R\$ 1.462 billion in 2010 to R\$ 1.126 billion in 2011, due to the 32.3% drop in prices and the 7.8% fall in volumes sold, which was a function of the excess global stock. This was partially offset by the product mix, in case of manganese and due to 3.7% reduction in volumes sold and 11.7% in average price, reflecting market conditions in the case of ferroalloy.

Nickel and other products

There was a 68.4% increase in revenues from sales of these products, from R\$ 8.075 billion in 2010, to R\$ 13.596 billion in 2011, mainly due to (a) the higher volume of nickel sales (45.7%), as a function of the return following the temporary paralysis of operations of Sudbury and Voisey's Bay; and (b) the growth of 140.2% in copper volumes sold, as a function of the return to normality of our operations, previously mentioned, which was partly offset by the 4.72% drop in the average sale price.

Copper

Revenues from sales of copper concentrate increased 18.8% from R\$ 1.551 billion in 2010, to R\$ 1.842 billion in 2011.

Potash

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Revenues from potash sales decreased 0.9%, from R\$ 461 million in 2010, to R\$ 457 million in 2011, due to the 17.1% drop in volumes sold, which was partly offset by the increase in the average sale price.

Phosphate

Revenues from phosphate sales increased 95.4%, from R\$ 1.995 billion in 2010, to R\$ 3.898 billion in 2011, reflecting the acquisition of Vale Fosfatados (previously Bunge Participações e Investimentos S.A.) and of Vale Fertilizantes (previously Fertilizantes Fosfatados S.A. Fosfertil).

Nitrogen

Sales revenues from nitrogen increased 125.4%, from R\$ 504 million in 2010, to R\$ 1.136 billion in 2011, reflecting the acquisition of Vale Fosfatados and Vale Fertilizantes. The phosphate and nitrogen products were included in the accounting records for the first complete year after the acquisition in 2010. The numbers reported in 2010 reflect the financial result in the period from May to December 2010.

Logistics services

Revenues from logistics services reduced by 11.8% from R\$ 2.117 billion in 2010, to R\$ 2.367 billion in 2011.

Other products and services

Revenues from other products and services decreased in 16.7%, dropping from R\$ 691 million in 2010 to R\$ 805 million in 2011.

Table of Contents

Costs of Products and Services

Costs related to services and goods sold by Vale are detailed below:

Comments on Cost by Type of Product

The total cost of products and services totaled R\$ 42.451 billion in 2011, compared with R\$ 34.166 billion in 2010, an increase of 24.2%. The impact was mainly due to: (a) higher volumes sold; (b) return of basic metals operations in Canada; (c) consolidation of fertilizer assets (included in the results for the first complete year); and (d) the costs referring to the operations of Onça Puma.

- Outsourced services. The cost of outsourced services increased 51.0% in 2011, from R\$ 4.706 billion in 2010, to R\$ 7.107 billion in 2011, reflecting in part the entry into operation of Onça Puma.
- Materials costs. Materials costs increased by 24.1% in 2011, from R\$ 5.056 billion in 2010, to R\$ 6.276 billion in 2011.
- Costs of energy and fuels. Energy costs decreased 2.2% in 2011, from R\$ 5.300 billion in 2010 to R\$ 5.184 billion in 2011.
- Personnel costs. Personnel costs increased 48.3%, from R\$ 3.552 billion in 2010, to R\$ 5.269 billion in 2011, reflecting the return of activities at Sudbury and Voisey's Bay, and the 8.6% adjustment of salaries paid in Brazil.
- Acquisition of products. The cost of products purchased from third parties increased 39.7%, from R\$ 2.783 billion in 2010, to R\$ 3.887 billion in 2011, mainly due to the increase in the price of pellets.
- Depreciation and depletion. The cost of depreciation and depletion increased 35.3%, from R\$ 4.420 billion in 2010, to R\$ 5.980 billion in 2011, mainly reflecting the acquisition of fertilizer assets.
- Other costs. Other costs increased 4.8%, from R\$ 8.349 billion in 2010 to R\$ 8.748 billion in 2011.

Sales and administrative expenses

Sales and administrative expenses increased 32.2%, rising from R\$ 3.015 billion in 2010 to R\$ 3.985 billion in 2011. The increase is due to consolidation of the fertilizer assets, operations at Onça Puma, and the 8.6% increase in salaries due to the collective bargaining agreement of the Company's Brazilian employees.

Research and development expenses

Research and development expenses grew 83.4% over 2010, rising from R\$ 1.539 billion in 2010 to R\$ 2.822 billion in 2011. The increased research occurred mainly in the segments of bulk materials and basic metals.

Other operating costs and expenses

Other operating expenses increased from R\$ 4.007 billion in 2010, to R\$ 4.836 billion in 2011, an 20.7% increase, due to the provision for contingencies and pre-operating expenses of VNC, Onça Puma, Moatize and Rio Colorado.

Table of Contents

Result from sale of assets

In 2010 the company did not have results from asset sales, and in 2011, it had revenues of R\$ 2.492 billion due to the sale of aluminum assets.

Result from Corporate Participations

The result from corporate participations in non-controlled companies dropped 5.4% reducing revenue from R\$ 1,962 billion in 2010 to R\$ 1.857 billion in 2011.

Net Financial result

The financial result varied 124.4%, expenses increased from R\$ 2.831 billion in 2010, to R\$ 6.352 billion in 2011. The main factor contributing to the negative result was the increase in the monetary and exchange rate variations recorded in 2011 on the company's loans.

Income Taxes and Social Security Contributions

2011 recorded a tax expense on net income of R\$ 8.514 billion, compared to R\$ 6.437 billion in 2010, basically due to the higher tax base.

Net income

The 25.8% increase in net income, from R\$ 30.070 billion in 2010 to R\$ 37.814 billion in 2011, was mainly due to the factors explained above.

Analysis of equity accounts

In R\$ millions	2010	Variation %	2011
Assets			
Current Assets			
Cash and cash equivalents	12.636	(47.8)	6.593

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Short-term investments	2.987	n.m.	
Derivatives at fair price	87	1,178.2	1.112
Accounts Receivable	13.681	16.1	15.889
Related parties	160	(3.8)	154
Inventory	7.161	37.3	9.833
Taxes to be refunded	2.671	56.9	4.190
Advances to suppliers	313	134.2	733
Others	1.010	63.1	1.647
Non-current assets held for sale	11.877		
	52.583	(23.6)	40.151
Non-current			
Related Parties	48	1,783.3	904
Loans and financing	273	46.2	399
Advanced expenses			
Legal deposits	2.884	(5.2)	2.735
Income tax and social sec. payments deferred	2.263	56.4	3.539
Taxes to be refunded	601	82.5	1.097
Derivatives at fair price	502	(77.7)	112
Deposit for incentives and reinvestment	238	80.3	429
Others	788	39.0	1.095
	7.597	39.0	10.310
Investments	7.321	104.7	14.984
Intangibles	16.829	5.7	17.789
Fixed Assets	126.656	21.5	153.855
	158.403	24.3	196.938
Total Assets	210.986	12.4	237.089

Table of Contents

Liabilities and shareholders equity			
Current liabilities			
Accounts Payable to suppliers and contractors	5.928	49.3	8.851
Salaries and employment taxes	1.889	29.3	2.442
Derivatives at fair price	58	134.5	136
Portion of long-term current loans	4.707	(40.4)	2.807
Loans and financing	232	(82.8)	40
Related Parties	35	22.9	43
Taxes, contributions and royalties	440	122.5	979
Income tax provision	1.251	(23.7)	955
Pension and retirement benefits	313	1.0	316
Subconcessions payable	125	1.6	
Provision for asset retirement			123
Dividends and interest on own capital	8.068	72.6	2.207
Others	1.582	4.3	1.650
	24.628	(16.0)	20.685
Liabilities related to non-current assets held for sale			
	5.340		
	29.968	(31.0)	20.685
Non-current liabilities			
Derivatives at fair price	102	1,114.7	1.239
Loans and financing	35.978	11.8	40.225
Related Parties	3	5,600.0	171
Pension and retirement benefits	3.337	(14.7)	2.846
Contingency Provisions	3.409	(7.7)	3.145
Income tax and social sec, deferred payments	12.828	(17.3)	10.614
Provision for asset retirement	2.404	42.6	3.427
Participation Debentures	2.139	16.7	2.496
Non-controlling shareholders redeemable share	1.186	(20.5)	943
Others	3.306	39.7	4.617
	64.692	7.8	69.723
Shareholders Equity			
Class A preferred shares - 7,200,000,000 authorized shares with no nominal value and 2,108,579,618 (2010 2,108,579,618) issued			
	19.650	50.0	29.475
Common shares 3,600,000,000 authorized shares no nominal value and 3,256,724,482 (2009 3,256,724,482) issued			
	30.350	50.0	45.525
Mandatorily convertible securities into common shares	445	(19.1)	360
Mandatorily convertible securities into preferred shares	996	(20.1)	796
Treasury shares 181,099,814 preferred shares (2010 99,649,571) and 86,911,207 common shares (2010 47,137,394)			
	(4.826)	105.5	(9.917)
Operating results with non-controlling shareholders	685	(110.4)	(71)
Result from share conversion/issuance	1.867		
Equity valuation adjustment	(25)	980.0	220
Accumulated conversion adjustment	(9.512)	(89.3)	(1.017)
Profit reserves	72.487	7.8	78.105
Accumulated profits			
Total controlling shareholders equity	112.117	28.0	143.476
Non-controlling shareholders interest	4.209	(23.6)	3.205
Total equity	116.326	26.1	146.681
Total liabilities and equity	210.986	12.4	237.089

Table of Contents

Position on December 31, 2010 compared with the position on December 31, 2011

Vale has assets and debts referenced to different currencies, the main ones being the *real*, the US dollar and the Canadian dollar. On December 31, 2011, the company had 57% of its assets related to Brazilian *reais*, 8% to US dollars, 29% to Canadian dollars and 6% to other currencies, while the majority of our debt was expressed in US dollars. Consequently, the effects of changes in exchange rates had an impact on the financial statements, especially the depreciation of the *real* by 12.6% against the US dollar.

Current Assets

Cash and cash equivalents.

The 47.8% reduction, dropping from R\$ 12,636 billion on December 31, 2010 to R\$ 6.593 billion on December 31, 2011, occurred as a function of: (a) dividend distribution and the share repurchase program; (b) disbursement to pay the social contribution on net income (CSLL); and (c) acquisition of 100% of Vale Fertilizantes.

Short-term investments.

No short-term investments were reported on December 31, 2011, while on December 31, 2010 R\$ 2.987 billion were reported.

Derivatives at fair value

The increase in derivatives at fair value of 1,114.7%, rising from R\$ 87 million on December 31, 2010 to R\$ 1.112 billion on December 31, 2011, essentially refers to the drop in the CDI, which is the index for most of the company's swaps that protect the debt flow in *reais*.

Accounts receivable from customers.

The increase of 16.1%, rising from R\$ 13.681 billion on December 31, 2010, to R\$ 15.8889 billion on December 31, 2011, refers mainly to the increase in sales over 2010.

Inventories

The 37.3% increase in inventories, rising from R\$ 7.161 billion on December 31, 2010 to R\$ 9.833 billion on December 31, 2011, refers mainly to the significant increase in production, including new operations.

Taxes to recover or offset

The 56.9% increase in taxes to recover or to offset, rising from R\$ 2.671 billion to R\$ 4.190 billion, refers to the revision of the PIS/COFINS calculation, by virtue of a change in the legislation.

Table of Contents

Non-current assets held for sale

In 2010, asset sales totaled R\$ 11.877 billion, referring to sales of aluminum and kaolin assets. There was no execution in 2011.

Non-current assets

Related Parties

The increase of R\$ 48 million in this item at December 31, 2010, to R\$ 904 million on December 31, 2011, basically refers to inclusion of the company Norsk Hydro ASA (to which Vale transferred aluminum assets and received a shareholder stake) as a related party.

Deferred income tax and social contribution

The increase in the deferred income tax and social contribution of 56.4%, rising from R\$ 2.263 billion on December 31, 2012 to R\$ 539 billion on December 31, 2011, was due to the exchange rate variation on the added value linked to the investment in the nickel area.

Taxes to recover or offset

The increase in taxes to recover or offset of 82.5%, which rose from R\$ 601 million on December 31, 2012 to R\$ 1.097 billion on December 31, 2011, refers to the ICMS on operations that were stopped for part of 2010.

Derivatives at fair price

The 77.7% reduction in derivatives at fair price, which dropped from R\$ 502 million on December 31, 2010 to R\$ 112 million on December 31, 2011, basically refers to the mark to market of derivative swap operations denominated in *reais*, due to depreciation of the *real* against the US dollar.

Investments

The 104.7% increase in investments, from R\$ 7,321 billion on December 31, 2010 to R\$ 14.984 billion on December 31, 2011, mainly reflects the consolidation of Norsk Hydro.

Fixed assets

The 21.5% increase in fixed assets, rising from R\$ 126.656 billion on December 31, 2010 to R\$ 153.855 billion on December 31, 2011, occurred due to projects in the iron ore, nickel and logistics segments.

Current liabilities

Accounts payable to suppliers and contractors

The 49.3% increase in accounts payable to suppliers and contractors, rising from R\$ 5.928 billion on December 31, 2010, to R\$ 8.851 billion on December 31, 2011, was basically due to the increase in Vale's projects.

Portion of liabilities of long-term loans

The 40.4% reduction in the portion liabilities of long-term loans, dropping from R\$ 4.707 billion on December 31, 2010, to R\$ 2.807 billion on December 31, 2011, was due to maturities during the year.

Table of Contents

Derivatives at fair value

The increase in derivatives at fair value was 134.5%, rising from R\$ 58 million on December 31, 2010, to R\$ 136 million on December 31, 2011, basically due to the appreciation of the dollar against the *real*, which is the index for the majority of the company's swaps that protect the flow of debt.

Dividends and interest on own capital

Proposed dividends and interest on own capital decreased 72.6%, falling from R\$ 8.068 billion in 2010, to R\$ 2.207 billion in 2011, due to advances for the year 2011 made in August and October of that year. The balance of R\$ 2.207 billion remained for payment of the dividends proposed by Vale in 2012.

Liabilities related to non-current assets held for sale

Liabilities related to non-current assets held for sale were R\$ 5.340 billion in 2010, due to the payment of commitments linked to assets made available for sale of the assets in the aluminum segment and the kaolin companies. There was no execution in 2011.

Non-current liabilities

Loans and financing

The increase in loans and financing was 11.8%, rising from R\$ 35.978 billion on December 31, 2010, to R\$ 40.225 billion on December 31, 2011, reflecting the exchange rate variation on the debt.

Derivatives at fair value

The increase in derivatives at fair value was 1,102.9%, from R\$ 102 million on December 31, 2010, to R\$ 1.239 billion on December 31, 2011, basically due to the appreciation of the dollar against the *real*, which is the index for the majority of the company's swaps that protect the flow of debt.

Provisions for contingencies

Provisions for contingencies fell 7.7%, from R\$ 3.409 billion on December 31, 2010, to R\$ 3.145 billion on December 31, 2011, due to the payment of contingencies.

Deferred Income tax and social security contribution

In 2011, the deferred income tax and social contribution fell 17.3%, from R\$ 12.828 billion in 2010, to R\$ 10.614 billion, due to payment of the CSLL.

Provision with obligations for asset retirement

The increase of 42.6%, from R\$ 2.404 billion on December 31, 2010 to R\$ 3.427 billion on December 31, 2011, was due to the annual review of the estimates.

Shareholder Debentures

The 16.7% increase of shareholder debentures, from R\$ 2.139 billion on December 31, 2010 to R\$ 2.496 billion on December 31, 2011, refers to mark to market.

Shareholders Equity of Controlling Shareholders

The shareholders equity of the controlling shareholders increased by 28.0%, rising from R\$ 112.117 billion on December 31, 2010, to R\$ 143.476 billion on December 31, 2011. The increase in the profit reserves came from withholdings on net income.

Table of Contents**Analysis of Cash Flow 2012 x 2011**

The following table shows the values related to the consolidated cash flow statements for the years ended December 31, 2011 and December 31, 2012:

	2012	%	2011
Operating cash flow			
Year's net revenues	9,233	(75.3)	37,408
Adjustments to consolidate the year's net revenues with operating revenues	23,848	945.5	2,281
Operating net revenues	33,081	(16.6)	39,689
Investments net revenues	(30,093)	38.9	(21,665)
Financing net revenues	2,240	109.4	(23,694)
Cash and cash equivalents increase (reduction)	5,228	(192.2)	(5,670)
Beginning of the year cash and cash equivalents increase	6,593	(47.8)	12,636
Effect of exchange rate variations on cash and cash equivalents	97	126.0	(373)
Merged company's cash and cash equivalents			
End of the year cash and cash equivalents	11,918	80.8	6,593

Year ended on December 31, 2011, compared to the year ended on December 31, 2012***Net Operating Revenues***

Net operating revenues were R\$ 33.081 billion in 2012, compared with R\$ 39.689 billion in 2011, a drop of 16.6% over 2011, mainly due to reduction in the company's operating results.

Net Operating Revenues (used in) investment

Net revenues used in investments reached R\$ 30.093 billion in 2012, relative to R\$ 21.665 billion in 2011, an increase of 38.9% relative to 2011, due mainly to new projects.

Net Operating Revenues (used in) financing

Net revenues used in/from financing reached R\$ 2.240 billion in 2012, relative to R\$ 23.694 billion in 2011, an increase of 109.4% relative to 2011, due to a higher volume of investments made in 2012.

Table of Contents**Analysis of Cash Flow 2011 x 2010**

The following table shows the values related to the consolidated cash flow statements for the years ended December 31, 2010 and December 31, 2011:

	2011	%	2010
Operating cash flow :			
Year's net revenues	37,408	23.0	30,422
Adjustments to consolidate the year's net revenues with operating revenues	2,281	131.1	987
Operating net revenues	39,689	26.4	31,409
Investments net revenues	(21,665)	(31.4)	(31,585)
Financing net revenues	(23,694)	456.7	(4,256)
Cash and cash equivalents increase (reduction)	(5,670)	331.2	(1,315)
Beginning of the year cash and cash equivalents increase	12,636	(4.9)	13,291
Effect of exchange rate variations on cash and cash equivalents	(373)	(156.5)	660
Merged company's cash and cash equivalents			
End of the year cash and cash equivalents	6,593	(47.8)	12,636

Year ended on December 31, 2010, compared to the year ended on December 31, 2010***Net Operating Revenues***

Net operating revenues were R\$ 39.689 billion in 2011, compared with R\$ 31.409 billion in 2011, an increase of 26.4% over 2010, mainly due to reduction in the company's operating results, partially offset by the CFEM payment.

Net Operating Revenues (used in) investment

Net revenues used in investments reached R\$ 21.665 billion in 2011, relative to R\$ 31.585 billion in 2010, a drop of 31.4% relative to 2010, due mainly to the purchase of the fertilizer company.

Net Operating Revenues (used in) financing

Net revenues used in/from financing reached R\$ 23.694 billion in 2011, relative to R\$ 4.256 billion in 2010, an increase of 456.7% relative to 2010, was due to payments made to controllers as dividends and interest over own capital.

Table of Contents**10.2 Operating and Financial Results****a) Results of Vale Operations, in particular:***i. Description of key components of revenue*

Net operating revenues totaled R\$ 93.511 billion in 2012, dropping 8.3% relative to the R\$ 102.019 billion in 2011, and a 26.5% increase relative to the R\$ 80.677 billion in 2010.

Individually, the most important products in terms of revenue generation in 2012, 2011, and 2010 were: iron ore, pellets, and nickel.

REVENUES BY PRODUCT

R\$ million	2010	%	2011	%	2012	%
Bulk materials	60,940	75.5	77,226	75.7	68,901	73.7
Ferrous minerals	59,621	73.9	75,431	73.9	66,792	71.4
Iron ore	47,643	59.1	61,035	59.8	52,959	56.6
Pellet plant operation services	22		63	0.1	35	
Pellets	10,494	13.0	1,207	12.9	12,743	13.6
Manganese and ferroalloys	1,388	1.7	1,118	1.1	1,055	1.2
Others	74	0.1	8			
Coal	1,319	1.6	1,795	1.7	2,109	2.2
Thermal Coal	505	0.6	1,005	1.0	486	0.5
Metallurgical Coal	814	1.0	790	0.7	1,623	1.7
Basic metals	13,949	17.3	16,070	15.8	13,933	14.9
Nickel	6,698	8.3	9,552	9.4	8,076	8.6
Copper	2,578	3.2	4,355	4.3	4,257	4.5
PGMs	174	0.2	707	0.7	744	0.8
Precious metals	124	0.1	678	0.7	700	0.8
Cobalt	52	0.1	146	0.1	156	0.2
Primary aluminum	1,674	2.1	235	0.2		
Alumina	2,465	3.1	387	0.4		
Bauxite	184	0.2	10			
Fertilizers	2,980	3.6	5,551	5.4	7,008	7.5
Potash	461	0.6	457	0.5	569	0.6
Phosphates	1,995	2.4	3,898	3.8	4,926	5.3
Nitrogen	504	0.6	1,136	1.0	1,366	1.5
Others	21		60	0.1	147	0.1
Logistics services	2,108	2.6	2,878	2.3	2,710	2.9
Railroads	1,584	2.0	1,682	1.6	1,828	2.0

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Ports	524	0.6	685	0.7	882	0.9
Others	699	1.0	805	0.8	959	1.0
Net Revenues	80,677	100.0	102,019	100.0	93,511	100.0

In 2012, sales to Asia represented 55.8% of total revenues, in line with the 55.5% of 2011 and the 56.2% reported in 2010. Sales to the Americas amounted to 23.4%, also in line with the 22.6% reported in 2011

Table of Contents

and the 22.0% reported in 2010, mainly due to the increase in sales to the United States and Brazil. Revenues from Europe represented 17.3% in 2012, a reduction relative to the 18.7% in 2011, and 19.0% for 2010, while the remainder contributed with 3.5% of the 2012 revenues.

Considering sales per country, China was responsible for 37.1% of our revenues in 2012, followed by Brazil with 16.8%, Japan with 10.3%, Germany with 6.1%, South Korea with 4.4% and the United States with 2.7% in 2012.

REVENUES BY REGION

R\$ million	2010	%	2011	%	2012	%
North America	3,295	4.1	5,347	5.2	4,625	4.9
USA	1,423	1.8	2,797	2.7	2,593	2.7
Canada	1,756	2.1	2,361	2.3	1,973	2.1
Others	116	0.2	189	0.2	59	0.1
South America	13,656	16.9	17,712	17.4	17,256	18.5
Brazil	12,034	14.8	15,881	15.5	15,740	16.8
Others	1,622	2.1	1,831	1.9	1,516	1.7
Asia	45,342	56.2	56,655	55.5	52,208	55.8
China	29,228	36.3	35,982	35.3	34,684	37.1
Japan	8,967	11.1	12,164	12.0	9,609	10.3
South Korea	3,134	3.9	3,651	3.6	4,103	4.4
Taiwan	2,023	2.5	2,174	2.1	1,755	1.9
Others	1,989	2.5	2,684	2.5	2,058	2.1
Europe	15,313	19.0	19,142	18.7	16,181	17.3
Germany	5,289	6.6	6,384	6.2	5,717	6.1
France	1,264	1.6	1,338	1.3	1,300	1.4
United Kingdom	1,938	2.4	2,259	2.2	1,954	2.1
Italy	1,729	2.1	3,192	3.1	2,539	2.7
Others	5,093	6.3	5,969	5.9	4,672	5.0
Rest of the World	3,071	3.8	3,163	3.2	3,239	3.5
Gross Revenues						
Taxes						
Net Revenues	80,677	100.0	102,019	100.0	93,511	100.0

ii. *Factors that materially affected the operating results*

Vale's operating result is mainly affected by demand, which impacts the prices of our principal products, and it is also affected by exchange rates.

Demand and prices

The following table summarizes the average sale price of the main products for the periods indicated.

Table of Contents

	2010	2011	2012
	\$/metric ton, unless otherwise indicated(9)		
Iron ore	182.09	227.86	207.29
Pellets	283.76	324.53	289.93
Manganese	405.03	277.49	264.51
Ferroalloys	2,723.11	2,416.46	2,577.05
Coal			
Thermal coal	123.85	160.00	155.19
Metallurgical Coal	263.82	394.00	333.61
Nickel	38,669.75	37,781.39	34,660.94
Copper	13,599.55	14,101.35	14,849.08
Platinum (US\$ /oz)	2,922.55	2,875.03	3,110.15
Cobalt (US\$ /lb)	26.55	26.17	23.98
Aluminum	3,837.07		
Alumina	498.92		
Bauxite	55.66		
Potash	722.30	846.14	1,037.87
Phosphates			
MAP	994.60	1,138.14	1,264.06
TSP	794.85	981.30	1,029.63
SSP	389.44	471.46	525.07
DCP	987.79	1,138.13	1,228.44
Nitrogen	793.16	1,024.87	1,167.15

Iron ore and pellets

The demand for iron ore and pellets is a result of the global demand for carbon steel, which in turn is highly influenced by global industrial production. The pricing of iron ore and pellets is done according to several levels of quality and physical characteristics. Several factors affect the prices of different types of iron ore, such as the iron content in deposits, the size of particles, humidity and the type and concentration of contaminants (such as phosphorus, alumina and manganese) in the ore. Generally, the classification of ore into thin ore, lump ore and pellet feed determines price differences.

Demand from China has been one of the main drivers of worldwide demand and prices.

Chinese imports of iron ore reached 745.5 million metric tons in 2012, 8.5% above the 687.0 million metric tons from 2011, and 20.4% above the 2010 imports, due mainly to the solid growth of Chinese steel production in 2012.

It is expected that China's growth will remain strong in 2013, driven mainly by domestic demand.

Our iron ore prices are grounded in a variety of price option that are usually based on spot indices for the specification of prices charged to clients. In 2012, there was a significant change in our iron ore quarterly pricing agreements, which uses the average price indices for the three months of the current quarter to use the pricing options based on spot. This change exposes us to a greater pricing volatility, but it allows us to obtain greater value by bringing our point of sales closer to the Asian markets.

Fine iron ore prices command premiums as a function of the content of iron. The lump ore and pellet prices contain premiums in relation to fine iron ore prices and are determined based on client negotiations. The average prices for iron ore in 2012 were 17.0% lower than the average prices in 2011, and 3.9%

(9) Amounts converted using the average exchange rate in each period: R\$ 1.7593/US\$ in 2010, R\$ 1.6746/US\$ in 2011, and R\$ 1.9550 in 2012.

Table of Contents

higher than 2010. The average price for pellets was 11.2% lower than prices in 2011, and 1.5% lower than the average price in 2010.

Manganese and ferroalloys

The prices of manganese ore and ferroalloys are mainly influenced by trends in the carbon steel market. The prices of ferroalloys are also influenced by the prices of its main inputs, such as manganese ore, energy and coke. Manganese ore sales are based on the spot market or calculated on a quarterly basis. Ferroalloys prices are determined on a quarterly basis.

Coal

The demand for metallurgical coal is driven by the demand for steel, especially in Asia. The demand for thermal coal is directly related to electricity consumption, which will continue to be driven by worldwide economic growth, especially in emerging economies. Since April 2010, the prices for metallurgical coal have been established on a quarterly basis for most volumes sold in the transoceanic market, while some players are selling it on a quarterly basis, and a minority continues to use annual pricing. The prices of thermal coal are set in spot negotiations and/or through annual contracts.

Nickel

Nickel is traded on the London Metal Exchange (LME), and it is mainly used to produce stainless steel. Most nickel products are priced using a discount or a premium to the LME price, depending on the technical and physical characteristics of the product. Nickel demand is heavily affected by production of stainless steel, which represents 63-66% of consumption.

Vale has short-term fixed-volume contracts with customers for the majority of our expected annual nickel sales. These contracts, together with its sales of nickel products to be used for other purposes (high nickel alloys, steel alloys, forging, plating, batteries and special applications), provide stable demand for a significant portion of its annual production. In 2012, 67% of the refined nickel sales were destined to applications outside the stainless steel industry. This, when compared to the industry average of 34% among nickel producers, results in its sales volume being more stable. As a result of its focus on such higher-value segments, the average realized nickel prices have typically exceeded LME prices.

Primary nickel (including iron-nickel, pig iron nickel and nickel cathode) and secondary nickel (scrap) are nickel's main competitors for stainless steel production. The choice between the different types of primary and secondary nickel is largely driven by its relative prices and availability. In recent years, secondary nickel accounted for about 41-46% of the overall nickel used in stainless steel production, and primary nickel accounted for 54-59%. In 2012, the Chinese nickel pig iron production and iron-nickel production was estimated to have been higher than 330,000 metric tons, representing 18% of the global supply of primary nickel, compared to 16% in 2011 and 11% in 2010.

Copper

Copper prices are determined on the basis of: (a) copper prices in final markets, such as the LME and the NYMEX; and (b) for intermediate products, such as copper concentrate (which represents the majority of the company's sales) and copper anode, treatment and refining rates are negotiated with each client. According to a pricing system known as MAMA (month after month of arrival), sale prices of copper concentrate and anode are provisionally set at the time of shipment, and the final prices are based on the LME at a future time, typically three months after shipment of product.

Aluminum

In February 2011, most of the company's aluminum business was transferred to Norsk Hydro ASA (Hydro) and, in turn, the Company now has 22% of Hydro's capital, an aluminum production company

Table of Contents

headquartered in Norway. Prior to the transaction, Vale's aluminum sales were conducted using prices based on LME's previous month prices. Alumina sales were based on a percentage of the LME's aluminum price and bauxite prices were determined using a formula linked to the aluminum price from 3 month future contracts in the LME, and the alumina FOB Australia price.

Fertilizers

The demand for fertilizers depends on the same market fundamentals as those for global demand for minerals, metals and energy. The rapid *per capita* growth of emerging economies causes changes in food, marked by an increase in the consumption of proteins, which contributes to higher demand for fertilizers. Demand is also driven by biofuels that are emerging as an alternative source of energy to reduce global dependency on greenhouse gases [sic], and essential raw materials for the production of biofuels – sugar cane, corn and palm – which are intensively used in fertilizers.

Fertilizers are sold in the market mainly on a cash basis using international reference prices, although certain large importers, such as China and India, often sign annual contracts. Seasonality is an important factor for determining price throughout the year, given that agricultural production in each region depends on the climactic conditions of the harvest.

Logistics

Demand for our transportation services in Brazil is primarily driven by Brazilian economic growth, mainly in the agricultural and steel sectors. The logistics revenues are primarily from fees charged to customers for the transportation of cargo using Vale's railroads, ports and ships. The Company's railroads account for most of this revenue. Nearly all of the company's logistics revenues are expressed in Brazilian *reais* and are subject to adjustments triggered by changes in fuel prices. Prices in the Brazilian market for railroad services are subject to ceilings set by the Brazilian regulatory authorities, but they primarily reflect competition with the trucking industry.

Exchange Rates

The impact of exchange rate variations on Vale's operational results are described in item 10.2 (b) of this Reference Form.

b. Variations in revenues attributable to changes in prices, exchange rates, inflation, changes in volumes and the introduction of new products and services

Exchange rate variations

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Most of the Company's revenues are expressed in US dollars, whereas most of our costs of goods sold are expressed in other currencies, mainly the Brazilian *real* (57% in 2012), the US dollar (24% in 2012), Canadian dollars (15% in 2012), Indonesian rupees, Australian dollars, the euro, and others(10). As a result, changes in exchange rates affect the Company's operating margin.

Most of our long-term debt is expressed currencies other than the Brazilian real, mainly in American dollars (R\$ 43.431 billion on December 31, 2012). Due to the fact that Vale's functional currency is the Brazilian *real*, changes in the value of the US dollar against the Brazilian *real* result in exchange gains or losses on our net liabilities, which, in turn, affect our financial results.

(10) Composition of the CPV by currency in 2009 was: 69% in *reais*, 15% in US dollars, 11% in Canadian dollars, 2% in Australian dollars and 3% in other currencies. In 2011, CPV composition was: 59% in *reais*, 20% in US dollars, 15% in Canadian dollars, 2% in Australian dollars, and 4% in other currencies.

Table of Contents

On December 31, 2012 our debt expressed in *reais* was R\$ 17.552 billion. Since most of our revenue is in US dollars, Vale uses derivatives to convert our debt from Brazilian *reais* to US dollars. As a consequence of the depreciation of the Brazilian *real* against the US dollar in 2012, the net exchange rate and monetary variation caused a negative impact on our net profits of R\$ 4.144 billion in 2012. The net result of the currency and interest rate swaps, structured mainly to convert the debt expressed in Brazilian *reais* into US dollars to protect our cash flow from currency price volatility, produced a negative accounting effect of R\$ 280 billion in 2012, of which R\$ 956 million generated a positive impact on the cash flow.

Variations in the inflation rates

The company's revenues are not significantly affected by inflation rates.

Variations attributable to price changes, volume changes and the introduction of new products and services

Vale's operating revenue is directly affected by changes to its products' prices and services, as well as by changes to the volumes sold, as discussed in item 10.2(a)(ii) of this Reference Form.

Fertilizers

The fertilizers segment, whose activities were substantially increased in 2010 with the acquisition of Vale Fosfatados and Vale Fertilizantes, had the following effects on the Company's results: contribution of R\$ 7.008 billion to our 2012 net income in 2012 (R\$ 5.551 billion in 2011 and R\$ 2.980 billion in 2010), and contribution in the cost of R\$ 5.854 billion in 2012 (R\$ 4,512 billion in 2011 and R\$ 2.792 billion in 2010).

c. Impact of inflation, price variations of main inputs and products, exchange rate and interest rates on operating results and the issuer's financial result

For comments on the inflationary impact, price variations in the main products and exchange rates, see item 10.2 (b) of this Reference Form.

Vale is exposed to the risk of interest rates for loans and financings. Debt tied to interest rates in US\$ consists mainly of loans, including export prepayment operations, loans from commercial banks and multilateral organizations. In general, these debts are indexed to the LIBOR (London Interbank Offered Rate). The natural hedge between US interest rate fluctuations and prices of metals mitigates the volatility of the Company's cash flow. In the event of an imbalance in this natural hedge, Vale assesses the possibility of contracting financial instruments to provide the desired protection. The floating rate of its debt expressed in Brazilian *reais* includes debentures, loans obtained from the BNDES, fixed assets and financing for the purchase of services in the Brazilian market. The interest on these obligations is tied primarily to the CDI (Interbank Deposit Certificate), the reference interest rate on the Brazilian interbank market and the TJLP (long-term interest rate). Approximately 27.0% of

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the debt on December 31, 2012 was in reais, and the additional 73.0% in other currencies. About 30% of the debt at December 31, 2011 was expressed in Brazilian *reais*, the remaining 70% was expressed in other currencies. On December 31, 2010, 27% of the debt was expressed in *reais*, and 73% was in other currencies. Nearly 45.3% of the debt was tied to the floating interest rate on December 31, 2012, relative to 24% on December 31, 2011 and 53% on December 31, 2010.

Energy costs are an important component of our production cost and represented 11% of our total cost of products sold in 2012, 12.2% in 2011, and 15.5% in 2010. Increases in the price of oil and gas negatively impact our logistics, mining, pellets and nickel businesses. Electricity costs were 3.2% of the total cost of products sold in 2012, 3.6% in 2011, and 6.1% in 2010.

Table of Contents

10.3 Relevant effects on Financial Statements

The impairment registered in 2012 resulted in a loss of about R\$ 8.211 billion. This amount refers to the Company's assets recoverable value, based on the premise that includes the discounted cash flow and the commodities price.

In certain contracts, the Company takes risks related to the transport of products and it negotiates the freight price directly to the client. However, in these contracts, in 2011 and 2010, the main portion of the iron ore and pellets CFR (international contract for cost and freight) related freights was registered as though Vale were the operating agent, resulting in the presentation of freight net revenues. Vale revised the statement of the 2011 and 2010 results to adequately reflect the revenues of such sales by the total value charges to clients. Consequently, it showed a freight cost related to this operation as a sold product cost and, thus, increased iron ores and pellets sales in 2011 in the amount of R\$ 3,275 billion (R\$ 3,054 billion in 2010), with the corresponding increase in the cost of sold minerals and metals. The revision did not lead to any other changes in the statement of the results.

The purchase of Vale Fosfatados and Vale Fertilizantes has had significant impacts on the Company's results: contribution of R\$ 2.980 billion to our net income in 2010 and of R\$ 2.792 billion to our costs. The remaining operations did not have relevant impacts on the Company.

Vale does not provide guidance regarding its future financial performance. Vale seeks to disclose as much information as possible about its views on the different markets where it operates, its strategic guidelines and implementation in order to give the capital markets a sound basis for their expectations regarding the Company's performance in the medium and long term.

a. Introduction or disposal of operating segment

In 2010, the fertilizer segment was introduced to Vale's operating segments, and its contribution to the Company's revenues was 3.6% in 2010, 4.0% in 2011, and 7.5% in 2012.

b. Incorporation, acquisition or divestiture of stakeholder positions

Main Acquisitions

2012

Assets leasing and potash mining rights

On April 23, 2012, Vale renewed with Petróleo Brasileiro S.A. (Petrobras) the contract renewal for assets leasing and potash mining rights in Sergipe for 30 years, allowing it to continue to explore the potash mine in Taquari-Vassouras and the development of the Carnalita project. When it begins to produce, it has been estimated that Carnalita will have the largest potash operation in Brazil, with an estimated production capacity of 1.2 million tons of potash per year. The contract is in line with Vale's growth strategy to become one of the global leaders in the fertilizer industry.

Continuing with its corporate structure optimization process, in the second quarter of 2012, Vale acquire more than 10.46% of participation in Empreendimentos Brasileiros de Mineração S.A. (EBM), whose main asset is the participation in the Minerações Brasileiras Reunidas S.A. (MBR), which owns the Ibarito, Vargem Grande, and Paraopeba mines.

As a result of this acquisition, Vale has increased its participation in EBM's capital to 96.7% and in MBR's to 98.3%, and the amount of R\$ 450 million was known as the result of the operation with non-controlling shareholders in Net Equity.

Table of Contents

2011

Acquisition of control of Biopalma

In February 2011, Vale became the controller of Biopalma da Amazônia S.A. Reflorestamento Indústria e Comércio, in Pará, a producer of palm oil, which is used as a raw material in biodiesel production. The transaction value was R\$ 173.5 million. Our goal is to use this fuel in Vale's operations in Brazil. Biopalma begins palm oil production in 2012, and it expects to reach annual production of 500,000 tons by 2019, when crops reach maturity. The main use of the oil will be on Vale's biodiesel production to fuel its locomotives, machines and equipment in large Brazilian operations, using B20 (a mixture containing 20% biodiesel and 80% common diesel).

Acquisition of stake in the Belo Monte Hydroelectric Plant

In June 2011, Vale purchased 9.0% of the capital of Norte Energia S.A. (NESA) for R\$ 3.8 million, held by Gaia Energia e Participações S.A. (Gaia). NESA's exclusive purpose is to implant, operate and develop the Belo Monte Hydroelectric Plant located in Pará. Vale reimbursed Gaia for capital contributions made by Gaia in NESA, and it will assume the commitments for future capital contributions arising from the stakeholder position that was acquired (estimated to be R\$ 2.3 billion). The acquisition is consistent with the strategy to reduce operating costs and to minimize energy prices and the risks of supply. At December 31, 2011, R\$ 106 million had been contributed to NESA.

Increase of participation in SDCN

In June 2011, Vale purchased an additional 16% of participation in Sociedade de Desenvolvimento do Corredor Nacala S.A. (SDCN) for US\$ 8 million (equivalent to R\$ 12.8 million). The purchase was in line with the strategy to develop the logistic corridor of Nacala and was an extension of the purchase of 51% participation in SDCN in September 2010. SDCN has the concession to create the logistic structure necessary for the flow of production resulting from the expansion of coal production in Moatize. Vale will invest in the expansion of the capacity of the logistic corridor of Nacala by means of the rehabilitation of the existing railroads of the SDCN in Malawi and Mozambique, the construction of rail connections from Moatize to a new, deep-water marine terminal in Nacala, and the construction of the port of Nacala.

Agreement to explore the port facility concession in Santos

In July 2011, Vale signed an agreement to create a joint venture with Vale Fertilizantes in order to explore the Port Facility concession of Ultrafértil (TUF). The TUF is located in the city of Santos, in the state of São Paulo, and it moves imported loads of sulfur, ammonia and fertilizers in general. It is strategically interconnected to Vale's railroad network. It now holds 51% in the joint venture, which was acquired through the payment of R\$ 150 million to Vale Fertilizantes, and it is contributing R\$ 432 million in capital to the joint venture in order to finance the TUF's investment plan. The formation of the joint venture positions Vale to competitively meet the growth of agribusiness in Brazil. At the same time, investment in the TUF strengthens the logistics infrastructure of the fertilizer business, contributing to making its expansion in the coming years feasible.

Acquisition of shares in circulation of Vale Fertilizantes

In December 2011, Vale concluded the public offering to acquire the shares issued by Vale Fertilizantes in circulation in the market. As a result of this operation, Vale acquired 211,014 common shares, and 82,919,456 preferred shares issued by Vale Fertilizantes, which represent 83.8% of common shares and 94.0% of preferred shares of Vale Fertilizantes in circulation in the market, which corresponds to 0.1% of the total of common shares and 29.8% of the preferred shares of Vale Fertilizantes. Both the common and preferred shares were acquired at a price of R\$ 25.00 per share, for a total of R\$ 2.078 billion. On December 23, 2011, Vale Fertilizantes had its registration as an open company cancelled by the CVM.

Table of Contents

In January 2012, the General Extraordinary Shareholders Meeting of Vale Fertilizantes approved the redemption of the 5,314,386 shares remaining in circulation, both common and preferred, and representing 0.94% of the total shares of Vale Fertilizantes. Thus, through its controlled companies, Vale holds 100% of the total number of common shares, and 100% of the total of preferred shares of Vale Fertilizantes. The shares were redeemed at the share price offered in the public offering held on December 12, 2011 of R\$ 25.00 (twenty-five reais) per share, plus interest calculated based on the SELIC rate, from the date of payment for the offering, on December 15, 2011, until the payment date for redemption of the shares, which date was January 26, 2012. Vale's and Vale Fertilizante's total disbursement was R\$ 2.2 billion.

2010

Acquisition of iron ore assets in Africa

In April 2010, Vale acquired from BSG Resources Ltd. (BSGR) a 51% stake in BSG Resources (Guiné) Ltd., which holds concessions for iron ore in Guinea, Simandou South (Zogota) and exploration permits for Simandou North (Blocks I & II). Vale has paid US\$ 2.5 billion for the acquisition of these assets - US\$ 500 million in cash (equal to R\$ 866 million on the disbursement date), and the remaining US\$ 2 billion (R\$ 3.388 billion) will be paid in installments subject to the fulfillment of specific goals. Simandou Blocks 1 & 2 and Zogota are among the best still-unexploited iron ore deposits in the world, with high quality and potential for the development of large-scale and long-term projects, at low operating and investment costs.

Acquisition of coal assets in Australia

In June 2010, Vale acquired additional holdings of 24.5% (equal to R\$ 167 million) in the Belvedere (Belvedere) coal project for US\$ 92 million from AMCI Investments Pty Ltd (AMCI). As a result of this transaction, Vale's interest in Belvedere increased from 51.0% to 75.5%. Belvedere is an underground coal mine project in the Bowen Basin region, near the town of Moura in Queensland, Australia. According to our preliminary estimates, when completed the Belvedere project will have the potential to produce up to 7.0 million metric tons of metallurgical coal per year.

Acquisition of assets of fertilizer

In line with the company's strategy of becoming a global leader in the fertilizer industry, in May 2010 we acquired 58.6% of the capital of Fertilizantes Fosfatados S.A. (Fosfertil), now Vale Fertilizantes S.A., as well as the Brazilian company Bunge Participações e Investimentos S.A. (BPI), now Vale fosfatados, for R\$ 8.692 billion (equal to a price per share of US\$ 12.0185 for Fosfertil shares and a total of US\$ 1.7 billion for Bunge fertilizer assets). A payment of R\$ 103 million was made in July to complement the price of Vale Fosfatados. In September, Vale acquired an additional 20.27% of Fosfertil's capital for R\$ 1.762 billion (equal to a price per share of US\$ 12.0185) and in December it announced the result of the public offering for the acquisition of the company's common shares held by minority shareholders.

Acquisition of stake in SDCN

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In September 2010, Vale acquired 51% of Sociedade de Desenvolvimento do Corredor Norte S.A. (SDCN) for US\$ 21 million (equal to R\$ 37 million on the date of disbursement).SDCN has a concession to create the necessary logistics infrastructure to enable the flow of the production from the second phase of the Moatize coal project.

Table of Contents

Main investment disposals and asset sales

In accordance with the strategy, the Company continues to reduce our stakes in non-core assets. The following is a summary of the main disposals and sales of assets during the three-year period under discussion.

2012

Sale of CADAM Participation

On April 26, 2012, Vale signed an agreement to sell its participation in 61.5% of Cadam S.A. (CADAM) for US\$ 30.1 million (equivalent to R\$ 58.0 million), to KaMin LLC (a closed capital American company). CADAM produces kaolin and operated an open mine in the state of Amapá, a processing plant, and a private port, both in the state of Pará. The mine and the plant are interconnected via a 5.8 km pipeline. Vale will receive US\$ 30.1 million for CADAM's share control, to be paid within five years. The transaction was concluded on May 7, 2012. CADAM's sale is part of the Company's continued efforts to optimize its assets portfolio. Together with the sale of Pará Pigmentos S.A. (PPSA), in 2010, CADAM's sale consolidates the kaolin sales business.

Sale of Colombia coal assets

On May 28, 2012, Vale signed an agreement to sell its thermal coal operations in Colombia to CPC S.A.A, a company affiliated to Colombia Natural Resources S.A.S. (CNR), a closed capital company, for US\$ 407 million (equivalent to R\$ 843 million) in cash, subject to regulatory approval. The sale was concluded on June 25, 2012.

The thermal coal operations in Colombia are an integrated mine-rail-port system consisting of: (a) 100% coal mine in El Hatillo and a coal deposit in Cerro Largo, both in Cesar's department; (b) 100% of the Sociedad Portuaria Rio Córdoba (SPRC), a coal port operation on Colombia's Atlantic coast, and (c) 8.43% participation in the Ferrocarriles Del Norte de Colombia S.A. (FENOCO) railway, which holds concession and operation of the railway connecting the coal mines to SPRC.

Sale of manganese ferroalloy assets in Europe

On July 10, 2012, Vale signed an agreement to sell its manganese ferroalloy operations in Europe to Glencore Internacional Plc. Subsidiaries, a company listed in the London and Hong Kong stock markets, for US\$ 160 million (equivalent to R\$ 325 million) in cash, subject to the fulfillment of certain precondition. The manganese ferroalloy operations in Europe consist of: (a) 100% of Vale Manganese France SAS, located in Dunkirk, in France; and, (b) 100% of the Vale Manganese Norway AS, located in Mo I Rana, Norway. The sale was concluded on October 31, 2012.

Sale of marine transport assets

On August 31, 2012, Vale signed an agreement to the sale, for US\$ 600 million and posterior chartering, of 10 large ore carrier ships with Polaris Shipping Co. Ltd. (Polaris). These ships were acquired in 2009 / 2010 and converted from oil tankers to ore carriers, each with an approximate capacity of 300,000 DWT, so that Vale would have at its disposal a marine fleet dedicated to the transport of iron ore to its clients. The sold ships will chartered by Vale through long term chartering contracts signed with Polaris. In addition to freeing capital, the transaction preserves Vale's ability to transport iron ore by sea having the ships at its disposal, but eliminating the risks involved in ownership and operation.

Sale of fertilizer assets

On December 18, 2012, Vale signed with Petrobras an agreement to sell Araucária, a nitrogen production operation located in Araucária in the state of Paraná, for US\$ 234 million. The purchase price will be paid by Petrobras in quarterly payments, 100% adjusted by the Interbank Deposit Certificate (CDI), in amounts that are equivalent to the royalties owned by Vale relative to the potash assets leasing and mining rights

Table of Contents

at Taquari-Vassouras and the Carnalita project. The sale is subject to the fulfillment of preconditions, including approval by the Administrative Council for Economic Defense (CADE). Araucária has an annual production capacity of approximately 1.1 million tons of ammonia and urea. The divestment of assets like Araucária, which do not have synergy with the Company's portfolio, is consistent with efforts to improve the allocation of capital and revenue generation to complement the financing of investments considered a priority, with great potential for value generation. The Araucária sale also contributed to a reduction in investments to sustain existing operations in the amount of US\$ 50 million per year.

Sale of participation in oil and gas concession

On December 26, 2012, Vale signed an agreement with Statoil Brasil Óleo e Gás Ltda (Statoil) to sell its 25% participation in the BM-ES-22A concession in the Espírito Santo Basin for the amount of US\$ 40 million (equivalent to R\$ 82 million), in cash. Besides, the sale exempts Vale from investment liabilities in the amount of US\$ 80 million until the end of 2013. The completion of this transaction is subject to the fulfillment of usual precondition and approval. Vale's strategy for sustainable growth and value generation encompasses multiple options, and the active management of its portfolio is an important action to optimize the allocation of capital and to focus management efforts.

2011

Sale of aluminum assets

In February 2011, Vale announced that it had concluded a transaction with Norsk Hydro ASA (Hydro), a company listed on the Oslo Stock Exchange and on the London Stock Exchange (ticker symbol: NHY) to transfer all of its stake in Albras Alumínio Brasileiro S.A. (Albras), Alunorte Alumina do Norte do Brasil S.A. (Alunorte) and Companhia de Alumina do Pará (CAP), along with their exclusivity rights, commercial contracts and net debt of US\$ 655 million (equal to R\$ 1.088 billion) for 22% of Hydro's common shares in circulation, after the issuance on February 28, 2011, and US\$ 503 million in case (equal to R\$ 836 million) after adjustments.

Vale also created a new company, Mineração Paragominas S.A. (Paragominas), and transferred the bauxite mine of Paragominas and all of its remaining bauxite mining rights in Brazil. As part of this transaction, Vale sold 60% of Paragominas to Hydro for US\$ 578 million in cash (equal to R\$ 960 million) after adjustments to working capital. The remaining parcel will be sold in two equal portions, three and five years after conclusion of the transaction, for US\$ 200 million in cash, each.

According to the terms of the agreement, through its wholly owned subsidiaries, Vale transferred the following to Hydro: (a) 51% of the total capital of Albras; (b) 57% of the total capital of Alunorte; (c) 61% of the total capital of CAP; and it sold (d) 60% of the total capital of Paragominas.

Through its wholly owned subsidiaries, Vale subscribed 447,834,465 shares of Hydro, or 22% of the 2,035,611,206 shares in circulation, approximately US\$ 3.5 billion (equal to R\$ 5.866 billion) according to Hydro's closing price and the exchange rate NOK/US\$ on February 25, 2011. According to the terms of the transaction, Vale cannot sell its shares for a two-year lock-up period, and it also may not increase its stake in

Hydro beyond the 22%.

2010

Sale of Valesul assets

In January 2010, the company's wholly owned subsidiary, Valesul Alumínio S.A., entered into an agreement to sell its aluminum assets for US\$ 31.2 million (equal to R\$ 56 million). Valesul's assets that are included in the agreement are located in the state of Rio de Janeiro and include the anode factory, reducer and smelter, as well as industrial, administrative and inventory services.

Table of Contents

Sale of kaolin assets

In the second quarter of 2010, Vale sold 86.2% of its stake in Pará Pigmentos S.A. (PPSA), as well as other kaolin mining rights in Pará. Assets were sold to Imerys S.A., a company listed on Euronext, for US\$ 72 million (equal to R\$ 127 million).

Sale of stake in the Bayóvar project

In July 2010, Vale completed the sale of its minority stake in the Bayóvar project in Peru by means of a newly incorporated company named MVM Resources International BV (MVM). Vale sold 35% of MVM's total capital to Mosaic for R\$ 682 million, and 25% to Mitsui for R\$ 487 million. Vale controls the Bayóvar project, holding 40% of the total capital and 51% of the voting capital of the newly incorporated company. Overall capital investments made by June 30, 2010 were approximately US\$ 550 million (equal to R\$ 932 million in September 2010). The difference between the fair value and book value in this transaction, totaling R\$ 544 million, was accounted for in our shareholders' equity as per gain/loss regulations applicable to when the control of a company is held.

Sale of stake in Vale Oman Pelletizing Company LLC

In May 2010, Vale entered into an agreement with Oman Oil Company S.A.O.C., a company controlled by the Sultanate of Oman, to sell 30% of Vale Oman Pelletizing Company LLC, for US\$ 125 million (equal to R\$ 212 million on September 30, 2010). The transaction is still subject to the terms of the final agreement for the purchase of shares, to be signed when the preceding conditions are met. The difference between the fair value and the book value of this transaction, totaling R\$ 544 million, was accounted for in our net equity, as per gain/loss regulations applicable to when the control of a company is held.

c. Unusual events or operations

Income Tax

In June 2012, the Company decided to incorporate Vale Fertilizantes in the Nague. Consequently, the value of the acquired assets and liabilities stated in the Nague's accounting statements, deducted from the values amortized in the acquisition date, are the operations' tax basis. As a result, after the incorporation was concluded, there is no difference between the tax basis and the accounting values of the acquired net assets, and consequently, there is no more deferred income tax liability. The balance of the deferred income tax liability initially stated (accounted for when of the purchasing accounting) totaling R\$ 2,533 was entirely reclassified for the fiscal year's result, in connection with the incorporation of Vale Fertilizantes in the Nague.

Assets recoverable value

In 2012, evidence of recoverable value loss was identified in some of the investments as fixed assets from the nickel, aluminum and coal segments.

For the examination of the assets fair value, Vale uses discounted cash flows.

The discount rates applied in the future cash flow projection represent an estimate of the rate the market would use to meet the risks of the examined assets. The weighted average cost of Vale's capital is used as a basic point for the determination of the discount rates, with appropriate adjustments for the risk profile of countries in which individual cash generating units operate.

Tests were conducted to determine whether the recoverable value is lower than the assets accounting below:

Table of Contents

On December 31, 2012

Assets	Cash Generating Unit	Net Accounting Value	Recoverable Value	R\$ millions Impairment Adjustment
Investment				
Aluminum	Hydro	6,598	4,572	2,026
Metallurgy	Thyssenkrupp CSA	4,387	2,583	1,804
Energy	VSE	207	35	172
		11,192	7,190	4,002
Fixed Assets				
Nickel	Onça Puma	7,653	1,884	5,769
Coal	Austrália	3,365	1,226	2,139
Others		386	83	303
		11,404	3,193	8,211
		22,596	10,383	12,213

10.4 Changes in Accounting Practices. Corrections and Remarks.**a. Significant changes in accounting practices****2012**

There were no significant changes in the consolidated accounting statements in the fiscal year that ended on December 31, 2012. Vale drafted its consolidated accounting statements in IFRS based on the pronouncements already issued by the CPC and referenced by the CVM. The pronouncements issued by the IASB, and still not referenced by the CVM, will not be adopted in advance by the Company.

Considering the option given by the pronouncement of the CPC 19(R1) Investment in Joint Controlled Enterprise (Joint Venture), issued on August 4, 2011 and anticipating the consequences of the CPC 18(R2) Investment in Associated Company, Controlled Company and in Joint Venture (correlated to IFRS 11), the Company, for the purposes of consolidated statements, chose not to show its participation in controlled companies of shared control by the proportional consolidated method, and chose to present its investment in these entities using the equity equivalence method in the fiscal year of 2012.

Additionally to what is said above, for specific contracts, the Company assumes risks related to product transportation and negotiates the freight cost directly for the client. However, for these contracts, in 2011 and 2010, the main portion of the freight related to CFR (international term for freight and cost) of iron ore and pellets was recorded as if Vale was an operation agent, appearing in freight net income. Vale reviewed the 2011 and 2010 statements to reflect the income of such sales accordingly with the total value charged from clients. As consequence, freight costs related to this operation appears as cost of sold product.

For more information, see Note 2 in the financial statements.

(a) Pronouncements, interpretations, guidelines and revisions approved by the CVM for adoption after to December 31, 2012

- *Investment Entities*

Table of Contents

- *Consolidated Financial Statements, Joint Arrangements and Disclosure of Interests in Other Entities: Transition Guidance*
- *Annual Improvements to IFRSs*
- *Offsetting Financial Assets and Financial Liabilities*
- *Mandatory Effective Date and Transition Disclosures*
- *IFRIC 20 - Stripping Costs in the Production Phase of a Surface Mine*
- *IAS 19 - Employee Benefits*
- *IFRS 10 - Consolidated Financial Statements*
- *IAS 28 - Investments in Associates and Joint Ventures*
- *IAS 27 - Separate Financial Statements*
- *IFRS 11 Joint Arrangements*
- *IFRS 12 Disclosure of Interests in Other Entities*
- *IFRS 13 Fair Value Measurement*

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- *IFRS 9 Financial Instruments*

All of the above pronouncements, interpretations, and updates have correlated CPCs that were issued and approved, or that are in the process of being issued and approved by the CVM, with the same adoption dates.

(b) Pronouncements, interpretation, guidelines and revision approved by the CVM to be adopted after December 31, 2012

- CPC 46 Fair Value Measurement
- CPC 36(R3) Consolidated Statement
- CPC 45 Publication of Participation in Other Entities
- CPC 18(R2) Investments in Associated Companies, Controlled Companies, and Joint Ventures
- CPC 33(R1) Employee Benefits
- CPC 19(R2) Joint Businesses

(c) Pronouncements, interpretation, and guidelines issued and / or updated by the CPC to be adopted during the fiscal year of 2012

- CPC 17 (R1) Construction Contracts
- CPC 30 (R1)- REVENUE
- CPC 40 (R1) Financial Instruments: Disclosure

- CPC 35 (R2) Separate Statements

Table of Contents

2011

There have been no significant changes in the consolidated financial statements for the year ended December 31, 2011. Vale prepared its consolidated financial statements in IFRS based on the circulars already issued by the CPC and approved by the CVM. The circulars issued by the IASB and not yet approved by the CVM will not be adopted in advance by the Company.

a) Circulars, interpretations and guidance issued and/or updated by the CPC, adopted during fiscal year 2011.

- CPC 15 (R1) Combination of businesses
- CPC 19 (R1) Investment in joint ventures
- CPC 10 (R1) Cost of loans
- CPC 21 (R1) Intermediate financial statements
- CPC 26 (R1) Presentation of financial statements
- CPC 35 (R1) Separate financial statements correlated according to international accounting norms
- CPC 36 (R2) Consolidated financial statements
- ICPC 01 (R1) Concession contracts
- ICPC 17 Concession contracts: evidence

b) Circulars and interpretations issued and/or updated by the IASB and still not approved by the CVM are consequently not adopted by the Company.

- IAS 01 Presentation of financial statements
- IAS 19 Employee benefits
- IAS 27 Separate accounting statements
- IAS 28 Investments in associated companies and joint ventures
- IFRS 09 Financial instruments

- IFRS 10 Consolidated accounting statements
- IFRS 11 Joint agreements
- IFRS 12 Divulging investments in other entities
- IFRS 13 Measuring fair value
- IFRIC 20 Costs of sterile removal in the production phase of surface mining

2010

Year of adoption of international accounting practices when the Company applied CPCs 37 and 43 while preparing the first accounting statements according to the CPCs. For further information, see note 5 in the accounting statements published in 2010.

b. Significant effects of changes in accounting practices

The Company started to record investments in joint ventures by the equity method on January 1, 2012. The table below summarizes the effects on the comparison period:

Table of Contents

		December 31, 2011	
Balance	Balance with proportional consolidation	Effects of joint ventures	Balance in proportional consolidation
Assets			
Current			
Cash and cash equivalents	7,458	(865)	6,593
Others	34,637	(1,079)	33,558
	42,095	(1,944)	40,151
Non-current			
Investments	10,917	4,067	14,984
Fixed and intangible assets	177,857	(6,213)	171,644
Others	10,913	(603)	10,310
	199,687	(2,749)	196,938
Total of assets	241,782	(4,693)	237,089
Liabilities and Shareholders Equity			
Current			
Accounts payable to suppliers	9,157	(306)	8,851
Loans and financing	3,872	(1,025)	2,847
Others	9,196	(209)	8,987
	22,225	(1,540)	20,685
Non-current			
Loans and financing	42,753	(2,528)	40,225
Deferred income tax and social contributions	10,773	(159)	10,614
Others	19,340	(456)	18,884
	72,866	(3,143)	69,723
Shareholders equity			
Capital stock	75,000		75,000
Non-controlling shareholders equity	3,215	(10)	3,205
Others	68,476		68,476
	146,691	(10)	146,681
Total liabilities and shareholders equity	241,782	(4,693)	237,089

Table of Contents

	December 31, 2011		
	Balance with proportional consolidation	Effects of joint ventures	Balance in proportional consolidation
Results			
Income from sales, net	106,470	(4,451)	102,019
Cost of products sold and services provided	(43764)	1,313	(42,451)
Gross income	62,706	(3,138)	59,568
Operating income (expenses)	(9,567)	416	(9,151)
Net financial income	(6,623)	271	(6,352)
Net equity	(51)	1,908	1,857
Earnings before income tax and social contributions	46,465	(543)	45,922
Income tax and social contribution	(9,065)	551	(8,514)
Net income in the period	37,400	8	37,408
Income (loss) attributed to non-controlling shareholders	414	(8)	406
Net income attributed to parent company shareholders	37,814		37,814

Effects of the change in freight increased the revenue from sales of iron ore and pellets in 2011 in the amount of R\$ 3,275 billion (R\$ 3,054 billion in 2010), with the corresponding increase in the cost of ore and metals sold. The review did not result in other changes in the statement of income.

c. Corrections and remarks in the auditor's opinion

There were no corrections on the opinions drafted by our independent auditors relating to the financial statements for 2010, 2010 and 2012.

As result of a difference between practices adopted in Brazil and those defined through the International Financial Reporting Standards (IFRS), the opinion by independent auditors on the financial statements ending on December 31, 2010, 2011, and 2012 present the emphasis paragraph as follows:

As described in Note 2, individual financial statements were prepared in accordance with accounting practices adopted in Brazil. In the case of Vale S.A., these practices differ from IFRS, applicable to separate financial statements, only related to the evaluation of investments in subsidiaries, affiliates, and joint ventures, by the equity method, as in accordance to IFRS, the fair value method should be adopted.

The purpose of such emphasis is to highlight any irregularity or focal point that may create any discomfort to the users of the financial statements. The purpose of this emphasis paragraph is to highlight a difference between accounting practices adopted in Brazil and those defined in the IFRS, justifying both opinions presented in the report by independent auditors on the individual financial statements.

Table of Contents

10.5 Critical Accounting Policies

Preparation of financial statements requires the use of certain critical accounting estimates and also the exercise of judgment by the Company's Management in the process of applying the Group's accounting policies.

These estimates are based on the best information available in each fiscal year. Changes in facts and circumstances may lead to revision of estimates, therefore the actual future results may differ from estimates.

Significant estimates and assumptions used by the Company's Management in preparing these financial statements are thus presented:

a) *Mineral reserves and useful life of the mines*

The estimates of proven and probable reserves are regularly evaluated and updated. These reserves are determined using generally accepted geological estimates. The calculation of reserves requires that the Company assume positions of future conditions that are uncertain, including future ore prices, exchange and inflation rates, mining technology, availability of permits and production costs. Changes in some of these assumptions could have a significant impact on proven reserves and probable reserves recorded.

The estimated volume of mineral reserves is based on calculation of the portion of the mines that is depleted, and the estimated useful life of the mine is a major factor in quantifying the provision of environmental rehabilitation of mines during the write-down of fixed assets. Any change in the estimates of the volume of mine reserves and the useful life of the assets linked to them may have a significant impact on charges for depreciation, depletion and amortization, which are recognized in the financial statements as cost of goods sold. Changes in the estimated useful life of the mines could cause a significant impact on estimates of the provision for environmental costs of recovery after write-down of fixed assets and impairment analysis.

b) *Disposal of Assets*

The Company recognizes an obligation according to the fair value for disposal of assets during the period in which they occur, pursuant to the Accounting Statement's Explanatory Note 2(u). The Company believes the accounting estimates related to recovery of degraded areas and closure costs of a mine are a critical accounting policy because they involve significant values for the provision and it is expected to involve several assumptions, such as interest rates, inflation, the useful life of the asset considering the current stage of depletion and the projected dates of depletion of each mine. These estimates are reviewed each year.

c) *Deferred Income Tax and Social Security Contribution*

The Company recognizes the effect of the deferred tax from the tax loss and/or temporary differences in its consolidated financial statements and the financial statements of the controlling company.

Determination of the provision for income taxes or deferred income tax, assets and liabilities, and any provision for losses on tax credits requires estimates from Management. For each future tax credit, the Company assesses the likelihood of part or the entire asset not being recovered. The provision for devaluation depends on the assessment by the Company, the probability of generating taxable income in the future, on production and sales planning, commodity prices, operating costs, restructuring plans, the costs of recovering degraded areas, and planned capital costs.

d) *Provision for legal suits*

Provisions for legal suits are only recorded when the possibility of loss is considered to be probable by the legal director and their legal advisers.

Table of Contents

Legal suit provisions are recorded when the value of losses can be reasonably estimated. By their nature, legal suits will be resolved when one or more future events occur or fail to occur. The occurrence of such events does not typically depend on the Company's activities, which makes it difficult to give precise estimates about the date on which such events are recorded. Assessing such liabilities, particularly in the uncertain legal environment in Brazil, and well as in other jurisdictions, involves exercising significant estimates and judgments from management regarding the results of future events.

e) *Employee Retirement Benefits*

The amounts reported in this section depend on a number of factors that are determined based on actuarial calculations that use several assumptions to determine costs and liabilities, among other things. One of the assumptions used in determining the amounts to be recorded in the financial statements is the discount and corrective interest rate. Any changes in these assumptions will affect the accounting records.

At the end of each year, the Company, together with external actuaries, reviews which assumptions should be used for the following year. These assumptions are used to update and discount the fair value of assets and liabilities, costs and expenses, and to determine future values of estimated cash outflows that are necessary to pay pension plan obligations.

f) *Reduction in Recoverable Value of Assets*

Every year the Company tests the recoverability of its tangible and intangible assets separated by cash-generation unity, usually employing discounted cash flow criteria, which depends on several estimates that are influenced by market conditions prevailing at the time that such recoverability is tested.

g) *Fair Value of Derivatives and Other Financial Instruments*

The fair value of financial instruments not traded in an active market is determined by using valuation techniques. The Company uses its judgment to choose the various methods and to define assumptions, which are mainly based on market conditions existing at balance sheet date

The analysis of the impact if actual results vary from Management's estimates is presented in accounting statement's explanatory note 25 on the topic of Sensitivity Analysis.

10.6 Internal Controls

a. Degree of efficiency of such controls, and any imperfections and actions taken to correct them

Vale's Management evaluated the effectiveness of internal controls related to financial statements through a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements.

Management established a process for evaluating internal controls using a process mapping methodology and risk assessment to identify applicable controls in order to mitigate the risks affecting the Company's ability to start, authorize, record, process and release relevant information in the financial statements.

At the end of fiscal year, based on tests performed by Management during the period, no shortcomings were identified in the implementation of relevant controls. During the fiscal year, whenever mistakes are

Table of Contents

identified in the implementation of controls, they are corrected through the application of action plans to ensure their correct execution at the end of the fiscal year.

Vale's Directors understand that the process-mapping and risk-assessment methodology used are adequate to ensure the efficiency, accuracy and reliability of its internal controls.

b. Deficiencies and recommendations on internal controls included in the independent auditor's report

The independent auditors did not present any deficiencies or recommendations about the effectiveness of internal controls adopted by Vale.

10.7 Public Sale of Securities

a. How resources resulting from the sale were used

2012

Vale priced US\$ 1 billion in bonds maturing in 2022.

In January 2012, Vale priced the bonds offer from its whole subsidiary Vale Overseas Limited (Vale Overseas) at US\$ 1.0 billion (equivalent to R\$ 2.0 billion). The bonds have a 4.375% coupon rate per year, paid biannually, at a price that is 98.804% of the bond's face value. These bonds mature in January 2022 and were issued with a 255 basis points spread over the US Treasury bonds, resulting in a 4.525% yield to the investor. The bonds are a Vale Overseas unguaranteed obligation, and are totally and unconditionally guaranteed by Vale. The guarantee is equally valid as payment for all other obligations of debt without Vale's guarantees.

Vale used this offer's net revenues for general corporate purposes.

Vale priced US\$ 1.250 billion in bonds maturing in 2022.

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In April 2012, Vale priced the bonds offer of its whole subsidiary Vale Overseas Limited (Vale Overseas) at US\$ 1.250 billion (equivalent to R\$ 2.6 billion), guaranteed by Vale. Bonds were consolidated in a single series, with Vale Overseas bonds, issued on January 11, 2012, at US\$ 1 billion (equivalent to R\$ 2.0 billion) with a 4.375% coupon rate and 2022 maturity. Bonds issued in April will have a 4.375% coupon rate of 101.345% of the bond's face value. These bonds mature in January 2022 and were issued with a 200 basis points spread over the US Treasury bonds, resulting in a 4.205% yield per year to the investor. The bonds are a Vale Overseas unguaranteed obligation, and are totally and unconditionally guaranteed by Vale. The guarantee is equally valid as payment for all other obligations of debt without Vale's guarantees.

Vale used the net revenues from this offer for general corporate purposes.

Vale priced 750 million in bonds maturing in 2023

In July 2012, Vale priced the bonds offer of 750 million (equivalent to R\$ 1.9 billion) of 10.5 years. Vale will use the net revenue from this offer for general corporate purposes. The notes maturing in 2023, in the amount of 750 million (equivalent to R\$ 1.9 billion), have a 3.75% coupon rate per year, paid annually, and were priced at 99.608% of the bond's face value. The bonds mature on January 10, 2023, and were issued with a 180 basis point spread over the mid-swap, or a 225.7 basis point spread over the German Bund's bonds return, resulting in a 3.798% yield per year to the investor. The bonds are an unguaranteed obligation and are *pari passu* for Vale's entire obligation of a similar nature.

Vale has used net revenues from this offer for general corporate purposes.

Table of Contents

Vale priced US\$ 1.5 billion in bonds maturing in 2042.

In September 2012, Vale price an offer of US\$ 1.5 billion (equivalent to R\$ 3.1 billion) in bonds with a 5.625% annual coupon rate, paid biannually, and that were priced at 99.198% of the bond s face value. The bonds mature in September 2042, and were issued with a 300 basis point spread over the US Treasury bonds, resulting in a 5.681% annual yield for the investor. The bonds are an obligation without guarantees and are *pari passu* for Vale s entire obligation of a similar nature.

Vale has used net revenues from the offer for general corporate purposes.

2011

There was no public sale of securities in 2011.

2010

Vale prices US\$ 1 billion in bonds maturing in 2020

In September 2010, Vale issued US\$ 1.75 billion (equal to R\$ 3.6 billion), of which US\$ 1.0 billion (equivalent to R\$ 2.0 billion) were in bonds maturing in 2020 and 4.65% coupon rate, with biannual payments and US\$ 750 million (equivalent to R\$ 1.6 billion) by reopening the bonds from 2039, with a 6,074% yield to the investor. The 2039 bonds are part of the US\$ 1.0 billion (equivalent to US\$ 2 billion) issued in November 2009. The 2020 bonds were issued at 99.030% of the bond s face value and the 2039 bonds issued at 110.872% of the bond s face value.

Vale used the net proceeds of this offering for general corporate purposes.

Vale prices 750 million in bonds maturing in 2018

In March 2010, Vale raised 750 million (equal to R\$ 1.9 billion) from an issuance of eight-year Eurobonds at a price of 99.564% of the instrument s face value. The notes maturing in March 2018 have a coupon of 4.375% per year, payable annually.

Vale used the net proceeds of this offering for general corporate purposes.

b. Whether there have been relevant deviations between the actual use of funds disclosed in the offering memoranda of that distribution

There have not been relevant deviations.

c. In the event of deviations, the reasons thereto

There have not been relevant deviations.

10.8 Significant items Not Included in the Financial Statements

a. Assets and liabilities held by Vale, directly or indirectly, that do not appear on its balance sheet (off-balance sheet items)

Nickel Project Vale New Caledonia

Regarding the construction and installment of our nickel processing plant in New Caledonia, we guarantee for the financing agreement, which are related below.

Table of Contents

In connection with the French Girardin tax law, which is favorable to financial merchant leasing operations, sponsored by the French government, Vale guarantees BNP Paribas, in the capacity of an investor receiving a tax benefit pursuant to French law, certain payments due by Vale New Caledônia S.A.S. (VNC). Consistent with the commitment, the assets are substantially concluded on December 31, 2012. Vales has also committed that the assets associated with financial merchant leasing determined by the Girardin Law would be operate for five years from them and under specific production criteria, which remains consistent with our current plans. Vale believes that the probability of the guarantee being claimed is remote.

In October 2012, Vales signed an agreement with Sumic Nickel Netherlands B.V. (Sumic), from VNC, through which Sumic agrees to dilute its VNC participation from 21% to 14.5%. Originally, Sumic has the option to sell his VNC shares to Vale is the defined cost of the initial project of nickel development, as defined by the financing given to VNC in local currency, is converted to US dollars at specific exchange rates exceeds the limit of R\$ 9.4 billion (equal to US\$ 4.6 billion), and an agreement is not reached on how to proceed in relation to the project. On May 27, 2010 the limit was reached. Vale discussed it and decided to extend the option to July 31, 2012. After October, the option s trigger change from a cost limit to a production limit. The possibility to exercise the option was postponed to the first quarter of 2015.

In addition, during operations, letters of credit were granted, as were guarantees in the amount of R\$ 1.7 million (equivalent to US\$ 820 million), which are associated with items such as environmental claims, commitment to retiree assets, electricity contracts, post-retirement benefits, service agreements for the community and import and export commitments.

During operations, vale is subject to routine complaints and litigation related to business and environmental lawsuits. Regarding currently pending or threatening environmental lawsuits, there are: (1) personal damages complaints, (2) duress suits, and (3) allegations of violations, including violation to the regulatory limits relative to residue under certain environmental laws and regulation or similar applicable to the operation. Vale believes that the final instance of such lawsuits, complaints and litigation will not harm operations or have an adverse material effect in the equity balance or statement of results.

Commercial Leasing

Railroad operations

The company and some group companies, through the Ministry of Transports, entered into concession contracts with the government for the exploration and development of public service railway transportation and assets leasing aimed to the provision of such services. The accounting statements of concessions and sub-concessions classified as intangible assets are shown in note 13 of the accounting statement.

The following tables show the minimum amount of future payments of the operating lease in railroad operations and pelletizing operations at December 31, 2012.

Railroad Operations

**Consolidated
R\$ millions**

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2013	174
2014	174
2015	174
2016	174
2017 forward	1,032
Total	1,728

Table of Contents**Pelletizing Operations**

	Consolidated R\$ millions
2013	74
2014	43
2015	33
2016 forward	93
Total	243

The total cost for operating leases in consolidated railroad operations during the year ended December 31, 2012 and 2011 and 2010 was R\$ 174 million R\$ 163 million, and R\$ 150 million, respectively, and costs for operating leases for consolidated pelletizing operations in the year ended December 31, 2012, 2011 and 2010, were R\$ 419 million, R\$ 737 million and R\$ 178 million, respectively.

Concessions and Sub-Concession Agreements

Railway transportation companies

Vale and some companies in the group, through the Ministry of Transport, entered into concession agreements with the government for exploration and development of public railway transport of cargo and leasing of assets for the provision of such services. The accounting records of concessions and sub-concessions classified as intangible assets are shown in explanatory note 15 of the financial statements.

The concession periods for the railroad are:

Railroad	Period of the Concession
Vitória to Minas and Carajás(direct) (i)	June 2027
Carajás (direct) (i)	June 2027
Center-East Network (indirect through FCA)	August 2026
Ferrovias Norte Sul S.A. (FNS)	December 2037

(i) Non-onerous concessions.

The concession will be terminated if one of the following takes place: the end of the contractual period, expropriation, forfeiture, termination of period, cancellation, bankruptcy or closure of the Concessionary.

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Concessions, sub-concessions and leasing of controlled companies are handled, for accounting purposes, as operational leases and have the following characteristics:

	FNS	FCA
Total number of installments	3	112
Payment frequency	(i)	Quarterly
Correction index	IGP-DI FGV	IGP-DI FGV
No. of parcels already paid	(ii)	54
Current value of installment		
Concession		2
Leasing		31

(i) According to the delivery of each stretch of railroad

(ii) Made two payments and 80% of the third payment was made, with the remaining 20% pending payment to cover existing pending items in the railroad stretch

Port Terminals

The Company owns specialized port terminals, as follows:

Table of Contents

Terminal	Location	Period of the concession
Tubarão, Praia Mole and Bulk Liquids Terminals	Vitória - ES	2020
Various Products Terminal	Vitória - ES	2020
Vila Velha Terminal	Vila Velha - ES	2023
Maritime Terminal of Ponta da Madeira - Piers I and III	São Luiz - MA	2018
Maritime Terminal of Ponta da Madeira - Pier II	São Luis - MA	2010 (i)
Inácio Barbosa Maritime Terminal	Aracajú - SE	2012
Ore Exploration Terminal - Port of Itaguaí	Itaguaí - RJ	2021
Ilha Guafba Maritime Terminal - TIG	Mangaratiba - RJ	2018

(i) Extension of valid period for 36 months until the completion of new public bidding.

Guarantee granted to associated companies

The Coligada Norte Energia acquired in 2012 a line of credit from BNDES, Caixa Econômica Federal, and Banco BTG Pactual, with the purpose of financing its investments in energy in the potential total amount of R\$ 22.5 billion. Regarding this line of credit, Vale, as well as its other shareholders, commits to give corporate guarantee over the value withdrawn, limited to its 9% participation in the entity.

By December 31, 2012, Vale granted guarantee over the withdrawn value in the amount of R\$ 282 million (US\$ 126 million). On January 2, 2012 (Subsequent Event), Norte Energia gained the release of another share of its loan, increasing the value guaranteed by Vale from R\$ 188 million to R\$ 470 million.

b. Other items not shown in the financial statements

There are no other items not shown in Vale's financial statements other than those previously reported.

10.9 - Comments on items not shown in the Financial Statements

Vale's Directors do not expect relevant effects on the operations described in item 10.8 of this Reference Form and not recorded in the financial statements that would change the revenues, expenses, operating result, financial expenses or other items in Vale's financial information.

For a description of the nature and purpose of each operation, as well as the amount of the obligations assumed and rights generated on behalf of Vale as a result of operations not shown in our financial statements, please refer to item 10.8 of this Reference Form.

10.10 - Business Plan

a. Investments, including: (i) quantitative and qualitative description of ongoing and planned investments; (ii) sources of investment financing; and (iii) relevant ongoing and planned divestments.

b. Already-disclosed acquisition of plant, equipment, patents or other assets that should materially affect Vale's production capacity

c. New products and services, including: (i) description of ongoing research already published; (ii) the total amounts spent by the issuer on research to develop new products or services; (iii) ongoing projects already announced; and (iv) the total amounts spent by the issuer to develop new products or services

Table of Contents

NOTE: To convert the amounts of investments made, the average exchange rates in the periods were used for conversion.

In 2012, investments excluding acquisitions were R\$ 34.660 billion, an increase of 15% over the R\$ 30.133 billion invested in 2011, although this was below what was budgeted. Of the total amount invested in 2012, R\$ 22.639 billion was allocated to project development, R\$ 2.997 billion to R&D, and R\$ 9.025 billion to sustaining existing operations. Investments in corporate social responsibility were R\$ 2.626 billion (R\$ 2.005 billion earmarked for environmental protection, and R\$ 621 million to social projects).

Investments in acquisitions were R\$ 1.267 billion in 2012. The main acquisitions are commented on in item 10.3 of this Reference Form

In 2011, investments excluding acquisitions were R\$ 30.133 billion, a significant increase of 42% over the R\$ 21.276 billion invested in 2010, although this was below what was budgeted due to challenges in execution of projects. Of the total amount invested in 2011, R\$ 19.566 billion was allocated to project development, R\$ 2.917 billion to R&D, and R\$ 7.650 billion to sustaining existing operations. Investments in corporate social responsibility were R\$ 2.492 billion (R\$ 1.725 billion earmarked for environmental protection, and R\$ 765 million to social projects).

Investments in acquisitions were R\$ 2.371 billion in 2011. The main acquisitions are commented on in item 10.3 of this Reference Form.

In 2010, investments excluding acquisitions were R\$ 22.352 billion, with R\$ 14.494 billion allocated to project development, R\$ 1.998 billion to R&D after adjustments in natural gas exploration - and R\$ 5.858 billion to sustaining existing operations. Investments in corporate social responsibility were R\$ 1.998 billion, R\$ 1.296 billion earmarked for environmental protection, and R\$ 701 million to social projects.

The investments in acquisitions totaled R\$ 11.800 billion in 2010. The main acquisitions are commented on in item 10.3 of this Reference Form.

In 2012, Vale started operations in two projects (a) Salobo I, a copper and gold operation in Pará, and (b) Lubambe, a copper operation located in Africa's copper belt, in Zambia.

2013 Capital Budget

In December 2012, our Board of Directors approved our capital budget for 2013, including expenditures of US\$ 10.1 billion (equal to R\$ 21.3 billion) for project execution, US\$ 1.1 billion (equal to R\$ 2.3 billion) for research and development (R&D), and US\$ 5.1 billion (equal to R\$ 10.8 billion) dedicated to sustaining existing operations.

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The following table shows the estimated allocation of approved investments:

Allocation of Investments for 2013	%
By Category	
Projects	62.1%
Maintaining operations	31.4%
R&D	6.5%
Total	100.0%
By business area	
<i>Bulk materials</i>	57.6%
Ferrous minerals	46.9%
Coal	10.6%
Base metals	23.2%
Fertilizers	8.2%
Logistics for general cargo	3.3%
Energy	1.7%
Steel	3.2%
Others	2.9%
Total	100.0%

Table of Contents

The following table shows the main projects under development by Vale and/or by companies in the group:

Project	Estimated Start-up Date	Investment Made R\$ millions			Expected Investment		Status(1)
		2010	2011	2012	2013	Total	
IRON ORE MINING AND LOGISTICS							
Carajás Additional 40 Mtpa	2S13	637	831	1,871	1,019	6,462	Electromechanical assembly of processing plant and line of shipment are at an advanced stage. Assembly of metallic structure for the sifting stage. Operation license (LO) expected for 2S13. 85% of physical advance in the mine and plant.
Construction of dry-processing plant located in Carajás, Pará Estimated nominal capacity of 40 Mtpa							
CLN 150 Mtpa	1S13 a 2S14	1,038	2,488	1,980	926	7,650	The first ship docked a shipping test was conducted in the first ship at Pier IV. Operational tests conducted with railway roundhouse, discharge lines, and forklift. Conclusion of the railway access to the roundhouse. Installation license (IL) required for railway were issued. Onshore and offshore operation license (LO) expected for 1S13.
Increase capacity on the railroad and in the Northern System port, including the construction of the fourth pier at the maritime terminal of Ponta da Madeira, located in Maranhão							
Carajás Serra Sul S11D	2S16	378	1,233	1,445	1,224	14,949	Access road construction finished. Ongoing assembly of offsite module and of equipment delivery for truckless mining system. Installation license (IL) is expected for 1S13.
Development of mine and processing plant. Location in the southern mountains of Carajás, Pará. Estimated nominal capacity of 90 Mtpa.							41% physical advance.
Serra Leste	2S14	26	194	291	309	889	

Ongoing construction for assembly of processing plant's metallic structure. Re-sequencing of start-up to relieve resource pressure. Installation licenses (IL) issued.

Construction of new processing plant located in Carajás, Pará. Estimated nominal installed capacity of 6 Mtpa.

95% physical advance.

Table of Contents

Conceição Itabiritos	2S13	315	613	446	387	2,183	Construction of main areas concluded and on-going installation of sifting building's metallic structure. Operation license (LO) expected for 2S13.
Construction of concentration plant, located in the Southeastern System, Minas Gerais.							
Estimated nominal capacity of 12 Mtpa.						76% physical advance	
Vargem Grande Itabiritos	1S14	102	621	952	963	3,059	Assembly is ongoing. Heavy equipment received. Issuance of installation license (IL) expected for 1H13.
Construction of new iron ore processing plant, located in the Southern System, Minas Gerais.							
Estimated nominal capacity of 10 Mtpa.						76% physical advance.	
Conceição Itabiritos II	2S14	16	251	518	366	2,211	Commission of hematite's primary crusher concluded. Installation license (IL) issued.
Estimated nominal capacity of 19 Mtpa (without addition of liquid capacity).						58% physical advance.	
Cauê Itabiritos	2S15	0	35	192	383	2,797	Construction and land-leveling services. Advanced license and installment license (LP / LI) for the primary crusher expected for 1S14.
Adaptation of the Itabiritos processing plant with low contents, from Minas do meio, located in the Southeast System, Minas Gerais.						15% physical advance	
Estimated nominal capacity of 24 Mtpa, with additional net capacity of 4 Mtpa in 2017. 29% sinter feed, with 65.3% Fe and 4.4% silica, and 71% pellet feed, with 67.8% Fe e 2.8% silica.							
Simandou I Zogota	Under analysis	55	298	583	17	2,343	Scope and schedule under revision.
Development of the Zogota mine and the processing plant in the south of Simandou, Guinea.							
Estimated nominal capacity of 15 Mtpa.							
Teluk Rubiah	1S14	76	281	583	824	2,550	Land-leveling services at an advanced stage. Construction of the main jetty is ongoing; pile driving job nearly done.. Operating license expected for 1S14.
Construction of maritime terminal with sufficient depth to receive ships of 400,000 dwt							

and an inventory yard. Located in Teluk Rubiah, Malaysia.

Inventory yard with revolving capacity of up to 30 Mtpa for iron ore

54% physical advance..

Table of Contents

products.

PELLETIZING PLANTS

Tubarão VIII	2S12	236	313	542	294	2,023	Assembly of refraction oven concluded. Equipment commissioning ongoing. Operating license (OL) expected for 1SH13. Operating license (OL) expected for 2SH12.
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Estimated nominal capacity of 7.5 Mtpa.

91% physical advance..

Samarco IV	1H14					3,148	Mechanical equipment, assembly of metallic structures and civil construction are underway. 71% physical advance on the pelletizing plant. Budget fully financed by Samarco.
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Construction of the fourth pelletizing plant, expansion of the mine, ore pipeline, and infrastructure at the maritime terminal. Vale has a 50% stake in Samarco.

Estimated nominal capacity of 8.3 Mtpa, increasing the capacity of Samarco to 30.5 Mtpa.

COAL MINING AND LOGISTICS

Moatize II	2S15	0	122	749	640	3,846	Civil construction underway in the storage patio and primary crusher.
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New mine and duplication of CHPP of Moatize, as well as related infrastructure. Location in Tete, Mozambique.

Estimated nominal capacity of 11 Mtpa (70% metallurgical coal and 30% thermal coal).

27% physical advance..

Nacala Corridor	2S14	0	64	725	2,007	8,264	Land-leveling services of railroad stretches and at the onshore port are underway. Offshore equipment received for the construction of the port.
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Port and railroad infrastructure connect the Moatize site to the maritime terminal of Nacala-à-Velha, located in Nacala, Mozambique.

Estimated nominal capacity of 18 Mtpa.

12% and 15% of physical project on the railway and port, respectively.

COPPER - ORE

Salobo II	2S13	150	447	796	746	3,174	Civil engineering work in flotation areas, mill and crusher are finished. Electromechanical assembly of equipment in these areas is underway. Operating license (OL) for the plant expected for 1S14.
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Expansion of Salobo, raising of the dam and

Table of Contents

increasing the capacity of the mine, located in Marabá, Pará.							
Estimated additional nominal capacity of 100,000 tpa of concentrated copper.							68% physical advance.
NICKEL MINING AND REFINING							
Long Harbour	2S13	936	1,785	2,848	2,034	7,903	Infrastructure and civil construction are basically finished. Project entering the final stage of electromechanical assembly and commissioning. way.
Hydro-metallurgical operation. Located in Long Harbour, Newfoundland and Labrador, Canada.							
Estimated nominal refining capacity of 50,000 tpa of refined nickel, and associated copper and cobalt.							584% physical advance.
Totten	2S13	148	208	0	318	1,411	51% physical advance. Total investment executed of US\$402 million.
Nickel mine (being reopened) in Sudbury, Ontario, Canada. Estimated nominal capacity of 8,200 tpa.							
POTASH MINING AND LOGISTICS							
Rio Colorado	Under analysis	384	1,018	2,743	1,136	11,000	Mechanical installation of mine s ventilation and water pumping systems concluded.
Investments in an extraction system that uses solutions, located in Mendoza, Argentina, renewal of existing railroad (440 km), construction of a railroad line (350 km) and a maritime terminal in Bahia Blanca, Argentina.							
Estimated nominal capacity of 4.3 Mtpa of potash (KCI).							76% physical advance.
ENERGY							
Biodiesel	2S15	157	348	162	139	1,177	Land-leveling for biodiesel plant and for second palm oil plant. The first palm oil plant was commissioned and is operating. Installation license (IL) expected for 2S13 and operating license (LO) for 2S15..
Project to produce biodiesel from palm oil. Plantation of 80,000 hectares. Located in Pará, Brazil.							
Estimated nominal							

Table of Contents

capacity of 360,000 tpa of biodiesel.

STEEL

CSP(2)	1S15	0	437	575	816	4,924	Final stages of land-leveling services. Pile driving job underway. 20% physical advance.
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Development of a steel sheet plant in partnership with Dongkuk e Posco, located in Ceará. Vale holds 50% of the joint venture.

Estimated nominal capacity of 3.0 Mtpa.

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(1)Expected investment is related to Vale's stake in the project.

10.11) Other factors with relevant influence

There are no other factors that have relevantly influenced the Company's operating performance that have not been identified or commented on other items in this section.

Table of Contents

11.1 Identification of forecasts

Vale provides no guidance in the form of quantitative predictions about its future financial performance (earnings guidance). However, Vale makes an effort to disclose as much information as possible about its vision of the different markets where it operates, as well as the strategic guidelines of the company and their execution, so as to provide participants in the capital market with a sound basis for the formation of expectations about its performance in the medium and long term.

For information about future investment projections for the company, see item 10.10 of this Reference form.

a. Object of projections

Not applicable.

b. Term under consideration and the validity of forecasts

Not applicable.

c. Premises of projections, with an indication of those which can be influenced by the administration of the Company

Not applicable.

d. Values of indicators that are the object of projections for the last 3 fiscal years

Not applicable.

11.2 Follow-up and changes to disclosed projections:

4 *identify which are being replaced by new projections included in the form and which ones are being repeated in the form*

Not applicable.

5 *regarding projection periods already elapsed, compare the data projected with the effective performance of the indicators, indicating clearly the reasons that led to deviations in the projections*

Not applicable.

6 *regarding projections for periods still ongoing, to make known if projections are still valid on the date of submission of the form, and, when applicable, explain why they have been abandoned or replaced*

Not applicable.

Table of Contents

12.1 Description of Administrative Structure

a. Powers of each body and committee

Board of Directors:

The Board of Directors of Vale is comprised of 11 members and their respective deputies, with unified term of two years, and subject to reelection. Under Vale By-Laws, the Chairman of the Board of Directors and Managing Director positions cannot be held by one single individual. Also under the terms of the Bylaws, the Board of Directors has the powers contemplated in law:

- I. Distributing the compensation set by the general assembly among its members, the two advisory committees, and the Executive Board;
- II. Creating technical and consultative committees to advise it, in addition to the permanent committees contemplated in the Bylaws;
- II. Approving policies of selection, evaluation, development, and compensation of the members of the Executive Board;
- IV. Approving general Human Resource policies;
- V. Approving strategic guidelines and the strategic plan of Vale submitted annually by the Executive Board;
- VI. Approving annual and multi-annual budgets;
- VII. Monitoring and evaluating the financial and economic performance of Vale;
- VIII. Approving investment and/or development opportunities that exceed the limits established for the Executive Board as defined by the Board of Directors;
- IX. Issuing opinions on merger, split-off, or incorporation decisions of which Vale is a party, as well as share purchases;
- X. In accordance with the corporate purpose of Vale, making decisions on the setting-up of companies or transformation into a different type of company, direct or indirect participation or withdrawal from other companies, consortia, foundations, and other organizations through exercise of withdrawal rights, exercise or non-exercise of rights of preference in subscription and acquisition, directly or indirectly, of corporate equity or of any other form of participation or withdrawal as prescribed by law, including, but not limited to, merger, split-off, and incorporation of companies in which it participates;
- XI. Approving the corporate risk and financial policies of Vale;
- XII. Approving the issuance of simple debentures, not convertible into shares and without collateral;
- XIII. Appointing and removing the person responsible for internal auditing and for the Ombudsman, who shall report directly to the Board of Directors;
- XIV. Approving policies and the annual internal audit plan of Vale, as well as to acknowledge the respective reports and determine the adoption of any necessary measures;
- XV. Approving alterations in corporate governance rules;

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XVI. Approving policies on employee conduct based on the ethical and moral standards described in the Code of Ethical Conduct of Vale;

XVII. Approving policies to avoid conflicts of interest between Vale and its shareholders or managers, as well as on the adoption of measures considered necessary in the event such conflicts arise;

XVIII. Approving policies of institutional responsibility, especially those related to: the environment, work health and safety, and the social responsibility of Vale;

XIX. Approving the provision of guarantees in general, establishing criteria for the Executive Board for purchase of, financed sale of, or placing liens on, fixed assets and for the constitution of encumbrances for obtaining loans, financing, and other contracts, execution of commitments, non-exercise of rights and transactions of any nature, except waiver of preemptive rights in the subscription and purchase of corporate shares;

XX. Approving any reformulations, alterations or amendments to shareholder agreements or consortia contracts or agreements among shareholders or among consortia parties of

Table of Contents

companies in which the company participates and, moreover, signing of new agreements and/or consortia contracts that address matters of this nature;

XXI. Authorizing the negotiation, signing, or alteration of contracts of any kind or value between Vale and (i) its shareholders, either directly or through intermediary companies, (ii) companies that directly or indirectly participate, in the capital of a controlling shareholder or which are controlled by or are under joint control of entities that participate in the capital of the controlling shareholder and/or (iii) companies in which the controlling shareholder of the Company participates, and the Board of Directors may establish delegations, with standards and procedures that meet the requirements and nature of operations, without prejudice of keeping the aforementioned group duly informed of all company transactions;

XXII. Authorizing plans for repurchase of shares of their own issuance for maintenance in treasury, cancelation or subsequent sale;

XXIII. Approving or delegating to the Executive Board recommendation of persons who should form part of the administrative, consulting, and financial bodies of those companies and organizations in which Vale participates, either directly or indirectly;

XXIV. Determining the preparation of balance sheets for periods of less than one year and declaring dividends or interest on its own capital on the basis of the profits shown on these balance sheets, as well as declaring the m on the basis of accrued profits or existing profit reserves shown on the most recent annual or intermediate balance sheet;

XXV. Authorizing increases in corporate capital regardless of changes in bylaws, within the authorized capital limit and, at its discretion, exclude preemptory rights in the issuance of stock, debentures convertible into shares and subscription bonuses, the placement of which is done through sale on the stock market or by public subscription under terms established in Law 6.404/76; and

XXVI. Approving recommendations submitted by the Fiscal Board of the Company in the exercise of its legal and statutory attributions.

Advisory Committees:

The Board of Directors counts on the assistance, on a permanent basis of five (5) technical and advisory committees, as follows: Executive Development Committee; Strategic Committee; Finance Committee; Accounting Committee, and Governance and Sustainability Committee.

The mission of these committees is to assist the Board of Directors, including the monitoring of Vale activities, in order to provide more effective and higher quality solutions.

Executive Development Committee:

Under terms of article 21 of the Bylaws, the Executive Development Committee shall be responsible for:

I - Issuing reports on the human resources general policies of the Company submitted by the Executive Board to the Board of Directors;

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- II - Analyzing and issuing reports to the Board of Directors on the appropriateness of remuneration of members of the Executive Board;
- III - Submitting and keeping current the methodology of performance evaluation of the members of the Executive Board; and
- IV - Issuing reports on Vale's health and safety policies proposed by the Executive Board.

Strategic Committee:

Under terms of article 22 of the Bylaws, the Strategic Committee is responsible for:

Table of Contents

I - Issuing reports on Vale's strategic guidelines and the strategic plan submitted annually by the Executive Board;

II - Issuing reports on Vale's annual and multi-annual investment budgets submitted by the Executive Board to the Board of Directors;

III - Issuing reports on investment and/or divestiture opportunities submitted by the Executive Board to the Board of Directors; and

IV - Issuing reports on operations relating to merger, split-off, and incorporation operations in which the Company and its controlled subsidiaries are a party, and on share purchases submitted by the Executive Board to the Board of Directors.

Finance Committee:

Under terms of article 23 of the Bylaws, the Financial Committee is responsible for:

I - Issuing reports on the corporate risks, financial policies and the internal financial control systems of the Company; and

II - Issuing reports on the compatibility between the shareholders remuneration level and the parameters established in the annual budget and financial planning, as well as their consistency with the general policy on dividends and the capital structure of the company.

Accounting Committee:

Under terms of article 24 of the Bylaws, the Comptroller's Committee is responsible for:

I - Recommending to the Board of Directors the appointment of the person responsible for the internal auditing of the Company;

II - Issuing reports on policies and the Company's annual auditing plan submitted by the employee responsible for internal auditing, and on its execution;

III - Tracking the results of the Company's internal auditing, and identifying, prioritizing, and submitting to the Board of Directors actions to be monitored by the Executive Board

Governance and Sustainability Committee:

Under terms of article 25 of the Bylaws, the Committee on Governance and sustainability is responsible for:

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I - Evaluating the efficiency of Vale's governance practices and the workings of the Board of Directors, and submitting improvements;

II - Submitting improvements to the Code of Ethics and the management system in order to avoid conflicts of interest between the company and its shareholders or managers;

III - Issuing reports on potential conflicts of interest between the company and its shareholders or administrators; and

IV - Issuing reports on policies related to Vale's institutional social responsibilities, such as environmental-related issues and the social responsibilities, as proposed by the Executive Board.

Executive Board:

The Executive Board of Vale is comprised by, at least, 6, and at the most, 11 members, with a term of two years, subject to reelection. Under Vale By-Laws, the Chairman of the Board of Directors and Managing Director positions cannot be held by one single individual. Also, under terms of the Bylaws, the Executive Board has the following responsibilities, in addition to those contemplated in law:

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Table of Contents

- I. Approving the creation and elimination of Executive Departments subordinated to each Executive Director;
- II. Preparing and submitting to the Board of Directors the company's general policies on human resources, and executing the approved policies;
- III. Preparing and submitting, annually, to the Board of Directors, Vale's strategic guidelines and the strategic plan, and executing the approved strategic plan;
- IV. Preparing and submitting Vale's annual and multi-annual budgets to the Board of Directors, and executing the approved budgets;
- V. Planning and conducting the Company's operations and reporting Vale's economic and financial performance to the Board of Directors, and producing reports with specific performance indicators;
- VI. Identifying, evaluating and submitting investment and/or divestiture opportunities to the Board of Directors which exceed the limits of the Executive Board as defined by the Board of Directors, and executing the approved investments and/or divestitures;
- VII. Identifying, evaluating and submitting to the Board of Directors operations relating to merger, split-off, incorporation in which Vale is a party, as well as share purchases, and conducting the approved mergers, split-offs, incorporations and purchases;
- VIII. Preparing and submitting Vale's finance policies to the Board of Directors, and executing the approved policies;
- IX. Submitting to the Board of Directors the issuance of simple debentures, not convertible into shares and without collateral;
- X. Adhering to and encouraging adhesion to Vale's Code of Ethics, established by the Board of Directors;
- XI. Preparing and submitting to the Board of Directors Vale's policies on corporate responsibility, such as the environment, health, safety and social responsibility, and implementing the approved policies;
- XIV. Propose to the Board of Directors any reformulations, alterations, or amendments of shareholders' agreements or of agreements among the shareholders of companies in which Vale participates, as well as suggesting the signing of new agreements and consortia contracts that address subjects of this nature;
- XV. Authorizing the opening and closing of branch offices, subsidiary branch offices, depots, agencies, warehouses, representative office or any other type of establishment in this country [Brazil] or abroad;
- XVI. Authorizing the purchase of, sale of and placing of liens on fixed and non-fixed assets including securities, contracting of services, whether the company is the provider or receiver of such services, being empowered to establish standards and delegate powers, all in accordance with the criteria and standards established by the Board of Directors;
- XVII. Authorizing the signing of agreements, contracts and settlements that constitute liabilities, obligations or commitments on the Company, being empowered to establish standards and delegate powers, all in accordance with the criteria and standards established by the Board of Directors;
- XVIII. Authorizing the signing of commitments, waiver of rights, and transactions of any nature, except in regard to the waiver of preemptory rights in subscription and purchase, and may establish rules and delegate powers, all within the limits of the Executive Board as established by the Board of Directors;
- XIX. Establishing rules and delegating powers, within the limits of the Executive Board as established by the Board of Directors;

XX. Laying down voting guidelines to be followed at the General Assemblies or their equivalent by its representatives in the companies, foundations and other organizations in which Vale participates, directly or indirectly, respecting the investment opportunities

Table of Contents

the , and guidelines approved by the Board of Directors, as well as the respective budget and all within its respective limits in regard to, among other things, indebtedness, the sale of or placing of liens on assets, the waiver of rights, and the increase or reduction of corporate equity.

Non-Statutory Committees:

The Executive Board shall have, for advice on a permanent basis, two (2) technical and advisory committees, denominated as follows: Risk Management Committee and Disclosure Committee.

Disclosure Committee:

The primary attributes of the Disclosure Committee are (a) the evaluation of the relevance of acts or events that have occurred and are related to the business of Vale; and (b) the oversight of the disclosure of information to the capital markets pursuant to the terms of the Disclosure Policy. For more information on the Disclosure Committee see item 21.1.

Risk Management Committee:

The primary responsibilities of the Risk Management Committee are issuing an opinion on Vale's principles and instruments of risk management; and periodic reporting to the Executive Board on (a) the primary risks to which Vale is exposed (by type of risk and/or business) and the impact of these risks on the asset portfolio and cash flow; (b) how the risks are being monitored and managed, and (c) the impact on the profile of risk of the asset portfolio and on cash flow resulting from the inclusion of new investments and/or projects in the business plan, and, if necessary, what strategies of risk mitigation are recommended. The Risk Management Committee reports regularly to the Executive Board, and the latter is responsible for evaluating and approving strategies for risk attenuation over the long term, as recommended by the Risk Management Committee.

Fiscal Board:

The Fiscal Board shall be responsible for exercising the functions attributed to it by the applicable prevailing legislation, in Vale By-Laws, and as regulated by its own Internal Rules to be approved by its members.

The Fiscal Board, additionally to attributions set forth in Law 6404/76, is responsible to:

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- I. be aware of internal audit reports, external auditors and Comptroller Committee, evaluating recommendations and opinions and inviting them to attend meetings of the Fiscal Board, when needed.
- II. provide information on matters under its competence, upon request by shareholders or shareholders groups representing a minimum of 5% of capital stock;
- III. discuss with external auditors, internal auditors, Executive Directors, Comptroller Committee and Comptroller Director the result of internal control system evaluation, aiming improvement and certifying that recommendations presented and not questioned by the Executive Directors are deployed at the estimated schedule;
- IV. make recommendations and to help the Board of Directors in the selection, remuneration, and dismissal of external auditors of Vale;
- V. Oversee and evaluate the work of external auditors and determine to Company management any eventual withholding of compensation of the external auditor;
- VI. Deliberate on the contracting of new services that may be rendered by the external auditors of Vale;

Table of Contents

VII. Evaluate the effectiveness of internal controls of Vale and recommend changes, when needed; VIII. identify critical accounting aspects and analyze appropriate application of generally accepted accounting principles (US GAAP AND BR GAAP)

IX. Mediate eventual disputes between management and external auditors regarding the financial statements of Vale;

X. Set forth the procedures to be used by Vale to receive, process and deal with complaints or claims related to accounting and auditing matters, as well as guaranteeing that the mechanisms to receive complaints guarantee the confidentiality and unknown identity of the individual making the complaint;

XI. make available, thirty (30) days prior to General Shareholders Meeting, an opinion on the report financial statements and other related documents and affairs included in the agenda to be discussed.

b. Date of formation of the Fiscal Board, if it is not permanent, and of the formation of the committees.

The Fiscal Board has been a permanently functioning body since 9/25/1997.

The five Advisory Committees were formed by the Board of Directors on 12/19/2001, and pursuant to resolutions of the Special Shareholders Meeting held on 12/27/2002, upon which date their existence became part of the Bylaws.

The Disclosure Committee and the Risk Management Committee were formed upon deliberations by the Board of Directors on 6/19/2002 and 12/12/2005, respectively.

c. Mechanisms for evaluating the performance of each body or committee

Pursuant to Chapter Vi of the Internal Regulations of the Fiscal Board and provisions of the Sarbanes-Oxley Law, the Fiscal Board evaluates its own performance annually at the end of each audit cycle. The self-evaluation process considers the following: matters covered in monthly meetings, financial statements, risk management, and internal controls, management and internal audit responsibility, relationship with external auditors, resources and special research, formation of the Fiscal Board, and training and professional development of members. Only the independent auditors of Vale shall have knowledge of the self-evaluation conducted by the members of the Fiscal Board.

As of December 31, 2012, Vale did not have in place mechanisms of formal evaluation of the performance of the Board of Directors and of the Committees. For a description of the individual evaluation of the Executive Directors, see item 12.1(e) of this Reference Form.

d. On Executive Officers, their responsibilities and individual powers

Chief Executive Officer:

Under terms of article 33 of the Bylaws, the Chief Executive Officer has the following responsibilities:

- I. Presiding over meetings of the Executive Board;
- II. Exercising executive direction of the Company, with powers to coordinate and supervise the activities of the other Executive Officers, exerting his best efforts to ensure faithful

Table of Contents

compliance with the decisions and guidelines laid down by the Board of Directors and the General Assembly;

III. Coordinating and supervising the activities of the business areas and units that are directly subordinated to him;

IV. Selecting and submitting to the Board of Directors the names of candidates for Executive Officer posts to be elected by the Board of Directors, as well as to propose their respective removal;

V. Coordinating and processing the decision-making of the Executive Board in order to prioritize consensual decision among its members. If consensus is not achieved, the Chief Executive Officer may (i) withdraw the subject in debate; (ii) articulate the position of the majority, including making use of the deciding vote or (iii) in the interest of the Company and through well-based reasoning, decide individually on matters of joint deliberation; in this case he must report to the Board of Directors on the use of this prerogative at the first meeting of the Board of Directors that occurs after the corresponding decision. Decisions related to annual and multi-annual budgets and the Strategic Plan and the Annual Report on Administration of Vale shall be taken by a majority of votes, when considering all of the Executive Officers, so long as the favorable vote of the Chief Executive Officer is among the m;

VI. Indicating who among the Executive Officers shall replace an Executive Officer in case of a temporary impairment or absence;

VII. Keeping the Board of Directors informed about the activities of Vale;

VIII. Preparing the annual report and drawing up the balance sheet together with the other Executive Officers.

Executive Officers:

Under terms of article 34 of the Bylaws, the Executive Officers have the following responsibilities:

I Performing the services for which they are responsible;

II Participating in meetings of the Executive Board, contributing to the definition of the policies to be followed by the company reporting on matters of the respective areas of responsibility;

III Complying with and ensuring compliance with the policy and general direction of the company s business established by the Board of Directors, each being responsible for his specific area of activities; and

IV Contracting the services of attorneys, consultants, analysts, and other resources necessary for performance of the functions of the Fiscal Board, within budget, as well as contracting experts under terms of article 163 §8 of Law 6,404/76.

In addition to this, under terms of article 28 of the Bylaws and within the limits established for each Executive Officer, decisions on matters affecting the specific area of responsibility of each one shall be made by him alone, so long as the matter does not affect the area of responsibility of another Executive Officer, or in conjunction with the Chief Executive Officer in matters or situations pre-established by the latter.

e. Mechanisms of evaluation of the performance of members of the Board of Directors, of the Committees, and of the Committees and directorate

As of December 31, 2012, Vale did not have mechanisms in place for formal evaluation of the performance of members of the Board of Directors, of the Fiscal Board, and of the Committees.

Table of Contents

The members of the Board of Directors are evaluated annually based on their performance according to goals previously defined formally by the Board of Directors. These goals are based on Vale's performance, by means of measurement of the following indicators: asset cash flow and general indicators of productivity, safety, and the environment. The definition of these indicators and goals derive from the strategic planning and the budget approved by the Board of Directors. The goals are monitored by the area of budget and performance management. The final result is approved by Vale's Board of Directors.

Table of Contents

12.2 Description of the rules, policies, and practices relating to General Assemblies

a. Notification Periods

Vale customarily calls for the General Shareholders Meetings by notification, at least 30 days before the meeting in the first convocation, and 15 days prior in the second convocation, upon calling, in accordance with the recommendations of the CVM and commitments assumed before the Hong Kong Stock Market.

In addition, pursuant to article 8, §2 of Vale's Bylaws, a holder of special class preferred shares (Golden Shares) shall be called formally by the company, by means of personal correspondence directed to his legal representative at least fifteen (15) days in advance, for the purpose of considering any matter subject to the right of veto specified in Article 7 of the Bylaws and in item 18 of this Reference Form.

b. Powers

Vale's General Shareholders Meeting has powers pursuant to Law 6.404/76, and the General Shareholders Meeting shall be responsible to:

- I amend the bylaws;
- II elect or dismiss, at any time, company managers and counselors, provided that the Board of Directors is entitled to elect and dismiss company directors and determine their attributions;
- III annually receive accounts from manager and deliberate on financial statements;
- IV authorize the issuance of debentures, provided that the Board of Directors may authorize the issuance of debentures in specific cases provided for in Law 6.404/76 and the Company Bylaws;
- V suspend the exercise of shareholders' rights;
- VI deliberate on the valuation of assets provided by shareholders to comprise the capital stock;
- VII authorize the issuance of beneficiaries;
- VIII deliberate on the transformation, merger, incorporation and division of the company, its dissolution and liquidation, elect and dismiss liquidating agents and appreciate the accounts; and
- IX authorize managers to declare bankruptcy and composition with creditors.

c. Addresses (physical or electronic) at which documents relating to the General Assembly shall be available to shareholders for their review

At Vale's headquarters at Avenida Graça Aranha nº 26, 12º andar, Centro, city of Rio de Janeiro, State of Rio de Janeiro, Brazil and at the electronic addresses of Vale (www.vale.com) the Comissão de Valores Mobiliários - CVM (www.cvm.gov.br), BM&FBOVESPA - Bolsa de Valores, Mercadorias e Futuros (www.bmfbovespa.com.br); the Securities and Exchange Commission (www.sec.gov) and the Hong Kong Stock Market (www.hkex.com.hk).

Table of Contents

d. Identification and handling of conflicts of interests

According to Vale's Bylaws, the Board of Directors may set policies to avoid conflicts of interest between Vale and its shareholders or its managers, as well as on the adoption of provisions deemed necessary should conflicts of interest arise.

In addition, under terms of the Bylaws, the Governance and Sustainability Committee may issue reports related to potential conflicts of interest between Vale and its shareholders or its managers, upon request of the Board of Directors. The Committee may also analyze proposals to be considered by the Board of Directors.

e. Request for power-of-attorney by the directors to exercise voting rights

There are no rules, policies or practices for requesting powers-of-attorney by the directors to exercise voting rights in General Shareholders Meetings.

f. Necessary formalities to accept powers-of-attorney granted for shareholders, indicating whether Vale accepts powers from shareholders electronically

A shareholder who wishes to attend the General Meetings must provide identification and proof of Vale share ownership issued by the depositary financial institution.

Any shareholder may appoint a proxy, or more than one as the case may be, to attend meetings and vote in his name. If represented by proxy, the shareholder shall comply with the terms of Art. 126, Law No. 6,404/76, and must have been appointed by power-of-attorney no earlier than one year and qualify as a shareholder, manager, attorney who is a Member of the Order of Attorneys of Brazil, or be a financial institution. If the power-of-attorney is in a foreign language, it should be accompanied by corporate documents in the case of a legal entity, and of a letter of mandate duly translated into Portuguese, and notarized and with a consular stamp.

For the purposes of facilitating the Assemblies, shareholders represented by proxy may, at their exclusive discretion, deliver the documents within 72 (seventy two) hours prior to the Assemblies.

Vale does not accept powers-of-attorney granted electronically by shareholders.

g. Maintenance of Internet forums and pages intended to receive and share shareholder comments relating to meetings.

Vale does not keep Internet forums and pages for shareholders to receive and share comments relating to meeting minutes.

h. Transmission of meetings by live video or audio.

Vale does not transmit meetings by live video or audio.

i. Mechanisms allowing for inclusion of shareholders proposals.

There are no mechanisms allowing for inclusion on the agenda of proposals formulated by shareholders, except for those mechanisms contemplated in applicable law.

Table of Contents**12.3. Dates and newspapers of publication of information required by Law no. 6.404/76.**

Fiscal Year	Publication	Newspaper Territory	State or	Dates	
12/31/2012	Financial Statements	Diário Comércio Indústria & Serviços	SP	3/15/2013	
		Diário Oficial do Estado	RJ	3/15/2013	
	Call to General Shareholders Meeting to approve the Financial Statements	Jornal do Comercio	RJ		3/15/2013
		Diário Comércio Indústria & Serviços - SP			3/15/2013
					3/16/2013
					3/19/2013
		Diário Oficial do Estado	RJ		3/15/2013;
					3/18/2013
					3/19/2013
		Jornal do Comercio	RJ		3/15/2013;
			3/18/2013		
Minutes of General Shareholders Meeting that approved the Financial Statements	Diário Comércio Indústria & Serviços	SP		3/19/2013	
	Diário Oficial do Estado	RJ		4/18/2013	
	Jornal do Comercio	RJ		4/18/2013	
12/31/2011	Financial Statements	Diário Comércio Indústria & Serviços - SP		3/15/2012	
		Diário Oficial do Estado	RJ	3/15/2012	
		Jornal do Comercio	RJ	3/15/2012	
	Call to the General Shareholders Meeting to approve the Financial Statements	Diário Comércio Indústria & Serviços - SP			3/19/2012
					3/17/2012
					3/18/2012
		Diário Comércio Indústria & Serviços - RJ			3/20/2012
					3/21/2012
		Diário Oficial do Estado	RJ		3/19/2012
					3/20/2012
Minutes of General Shareholders Meeting that approved the Financial Statements	Jornal do Comercio	RJ		3/21/2012	
				3/19/2012	
				3/20/2012	
			3/21/2012		
			4/19/2012		

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		Diário Oficial do Estado RJ	4/19/2012
		Jornal do Comercio RJ	4/19/2012
12/31/2010	Financial Statements	Diário Comércio, Indústria e Serviços - SP	3/16/2011
		Diário Comércio Indústria SP	3/16/2011

Table of Contents

	Diário Oficial do Estado - RJ	3/16/2011
	Jornal do Commercio - RJ	3/16/2011
Call to the General Shareholders Meeting to approve the Financial Statements	Diário Comércio Indústria & Serviços - SP	3/21/2011
		3/22/2011
	Diário Comércio, Indústria e Serviços - SP	3/18/2011
	Diário Oficial do Estado - RJ	3/18/2011
		3/21/2011
		3/22/2011
	Jornal do Commercio - RJ	3/21/2011
Minutes of General Shareholders Meeting that approved the Financial Statements	Diário Comércio, Indústria e Serviços - SP	3/22/2011
		4/20/2011
	Diário Oficial do Estado - RJ	4/20/2011
	Jornal do Commercio - RJ	4/20/2011

12.4 Board of Director s rules, policies and practices

a. Frequency of meetings

The Board of Directors ordinarily holds meetings once a month, and special meetings whenever called by the Chairman or, in his absence, by the Vice-Chairman or by any other two (2) board members.

Meetings of the Board of Directors should be held at the company headquarters, and may exceptionally be held elsewhere, and attendance may be by means of teleconference, videoconference or other communication means that ensures effective participation and voting authenticity.

b. Shareholder provisions establishing voting restrictions on members of the Board of Directors

See item 15.5 in this Reference Form.

c. Rules on identifying and handling conflicts of interest

Vale does not have a corporate policy on conflicts of interest in meetings of the Board of Directors, apart from the Brazilian laws applicable in this regard. Vale's practice is to require that a Member of the Board of Directors who considers himself to have a conflict leave the Board meeting during discussion and deliberation of the relevant matters and abstain from any material intervention.

In addition, Vale has a Code of Ethical Conduct that must be followed by the members of the Board of Directors and its Advisory Committees, members of the Fiscal Board, Officers, employees and interns, and controlled companies (provided that they are subject to the laws of the local jurisdiction). It prevails over, and serves as guidelines for, all Vale rules and policies.

Under the Code of Ethics, the abovementioned individuals are required to defend the interests of Vale in matters in which they are participating and avoid situations in which conflicts of interest with Vale may arise, and when that is not possible, to abstain from representing Vale in the matter in question, immediately disclosing the conflict to his immediate superior.

Table of Contents

Violations of the Code of Ethics, rules, and disciplinary standards of Vale subject violators to disciplinary penalties, which may include warning, suspension, and termination of employment. In applying disciplinary penalties, the nature and seriousness of the infraction shall be considered, noting Vale human resources rules and applicable law.

Table of Contents

12.5 Description of binding clause the for the resolution of conflicts the through arbitration

There are no binding clauses in the Bylaws for the resolution of conflicts by and between shareholders and Vale through arbitration.

Table of Contents**12.6 /8 Composition and professional experience of management and Board of Directors:**

Name CPF Other positions held at the company	Age Occupation	Management body Elected position	Date of election Date of entry	Term Elected by comptroller
José Carlos Martins 304.880.288-68	63 Economist	Member of the Executive Board only Executive Director of Iron metals and Strategy	3/27/2013 3/28/2013	5/25/2015 No
Executive Director of Iron Metals and Strategy of Vale (since Nov/2011) and member of the Information Disclosure Committee (since Nov 2011) and Member of the Executive Committee of Risk Management (since May/2010), where he served as Executive Director of Marketing, Sales and Strategy (May/2010-Nov/2011), Executive Director of Iron Metals (June 2005 to May/2010), and Executive Director of Participations and Business Development (April/2004 to May/2005).				
Luciano Siani Pires 013.907.897-56	43 Mechanic Engineer	Member of the Executive Board only Executive Director of Finance and Investors Relations	3/27/2013 3/28/2013	5/25/2015 No
Permanent Member of the Financial Committee, the Risk Management Committee, and member of the Disclosure Committee				
Vânia Lucia Chaves Somavilla 456.117.426-53	53 Civil Engineer	Member of the Executive Board only Executive Director of Human Resources, Health and Safety, Sustainability, and Power	3/27/2013 3/28/2013	5/25/2015 No
Executive Director of Human Resources, Health and Safety, Sustainability, and Power of Vale (since November/2011), where she served as Executive Director of Human Resources and Corporate Affairs of Vale (since November/2011), where she also worked as Executive Director of Human Resources and Corporate Affairs of Vale (May 2011 to November 2011). Started her professional career in Vale on 8/3//01 as General Manager of Trade and Power responsible for the management of the power portfolio and then Director of area on 3/15/04, where she served as Director of the Environment and Sustainable Development Department on 4/1/10.				
Murilo Pinto de Oliveira Ferreira 212.466.706-82	59 Business Administrator	Member of the Executive Board 10 President/Superintendent	3/27/2013 3/28/2013	5/22/2015 Yes
Managing Director of Vale, Member of the Strategic Committee and of Information Disclosure Committee of Vale (since May 2011). Started his professional career in Vale in 1977, where he served in different positions as Director of the Department of Aluminum (2003 to 2005), Executive Director of Participations and Business Development (2005 to 2006) and Executive Director of Nickel and Base Metals (2007 to 2008).				
Gerd Peter Poppinga 604.856.637-91	53 Geologist	Member of the Executive Board only Executive Director of Base Metals and Information Technology	3/27/2013 3/28/2013	5/25/2015 No
Executive Director of Base Metals and Information Technology of Vale (since November 2011), where he also served as Executive Coordinator for Special Projects (Nov/1999 to Jan/2000).				

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Table of Contents

Humberto Ramos de Freitas	59	Member of the Executive Board only	3/27/2013	5/25/2015
222.938.256-04	Engineer	Executive Director of Logistics and Mineral Research	3/28/2013	No
Executive Director of Logistics and Mineral Research of Vale (since November 2011), where he served as Director of Logistic Operations (Sep/2009 to Jun/2010); Director of Ports and Navigation (Jun/2008 to Aug/2009); Director of Ports and Navigation Operations (Mar/2008 to May/2008); Director of the Port Operation Department (Mar/2007 to Feb/2008); General manager of the Manganese Department (Sep to Dec/1997) and General manager of Port of de Ponta de Madeira (Mar/1993 to Sep/1997).				
Galib Abrahão Chaim	62	Member of the Executive Board only	3/27/2013	5/25/2015
132.019.646-20	Engineer	Executive Director of Deployment of Capital Projects	3/28/2013	No
Executive Director of Deployment of Capital Projects of Vale (since November 2011), where he served as Director of the department of Coal Projects for projects in Australia, Mozambique, Indonesia and Zambia and Country Manager of Mozambique (2005 to 2011).				
Roger Allan Downey	46	Member of the Executive Board only	3/27/2013	5/25/2015
623.291.626-34	Administrator	Executive Director Fertilizers and Coal	3/28/2013	No
Executive Director of Fertilizers and Coal of Vale (since May 2012), where he served as Manager of Strategic Marketing Iron Ore (2002 to 2005).				
Francisco Ferreira Alexandre	50	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
301.479.484-87	Civil Engineer	Executive Director of Operations and Marketing for Fertilizers and Coal	4/17/2013	Yes
N/A				
João Batista Cavaglieri	57	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
394.850.647-72	Operating Support Technician	22 - Board of Directors (permanent)	4/17/2013	No
N/A				
Hidehiro Takahashi	57	Member of the Board of Directors only	3/27/2013	Until 2015 General Shareholders Meeting
949.725.917-49	Economist	23 - Board of Directors (deputy)	3/28/2013	Yes
N/A				
José Mauro Mettrau Carneiro of Cunha	63	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
299.637.297-20	Engineer		4/17/2013	Yes

22 - Board of Directors
(permanent)

N/A

231

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Table of Contents

Luciano Galvão Coutinho	66	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
636.831.808-20	Economist	22 - Board of Directors (permanent)	4/17/2013	Yes
Member of the Strategy Committee				
Luiz Carlos de Freitas	60	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
659.575.638-20	Accountant	23 - Board of Directors (deputy)	4/17/2013	Yes
Member of the Controller Committee				
Mário da Silveira Teixeira Júnior	67	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
113.119.598-15	Bank employee	21 - Vice-President Board of Directors	4/17/2013	Yes
Member of the Strategic Committee				
Oscar Augusto de Camargo Filho	75	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
030.754.948-87	Lawyer	22 - Board of Directors (permanent)	4/17/2013	Yes
Member of the Strategic Committee and Executive Development Committee				
Caio Marcelo de Medeiros Melo	40	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
376.763.691-34	Economist	23 - Board of Directors (deputy)	4/17/2013	Yes
N/A				
Eduardo Ferreira Jardim Pinto	50	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
226.158.813-53	Railroad worker	23 - Board of Directors (deputy)	4/17/2013	No
N/A				
Renato de Cruz Gomes	60	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
426.961.277-00	Engineer	22 - Board of Directors (permanent)	4/17/2013	Yes
Member of the Governance and Sustainability Committee				

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Sandro Kohler Marcondes	48	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
485.322.749-00	Bank employee	23 - Board of Directors (deputy)	4/17/2013	Yes

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Table of Contents

N/A				
Robson Rocha	54	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
298.270.436-68	Administrator	22 - Board of Directors (permanent)	4/17/2013	Yes
Member of the Executive Development Committee				
Nelson Henrique Barbosa Filho	43	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
009.073.727-08	Economist	22 - Board of Directors (permanent)	4/17/2013	Yes
N/A				
Fuminobu Kawashima	60	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
057.477.947-79	Economist	22 - Board of Directors (permanent)	4/17/2013	Yes
N/A				
Marco Geovanne Tobias of Silva	44	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
263.225.791-34	Economist	23 - Board of Directors (deputy)	4/17/2013	Yes
N/A				
Hayton Jurema da Rocha	55	Member of the Board of Directors only	4/17/2013	Until 2015 General Shareholders Meeting
153.667.404-44	Bank employee	23 - Board of Directors (deputy)	4/17/2013	Yes
N/A				
Eduardo de Oliveira Rodrigues Filho	58	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
442.810.487-15	Engineer	23 - Board of Directors (deputy)	4/17/2013	Yes
Member of the Financial Committee				
Luiz Maurício Leuzinger	71	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
009.623.687-68	Engineer	23 - Board of Directors (deputy)	4/17/2013	Yes

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Member of the Financial Committee and the Executive Development Committee				
Dan Antonio Marinho Conrado	48	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting Yes
754.649.427-34	Bank employee	23 - Board of Directors (deputy)	4/17/2013	Yes

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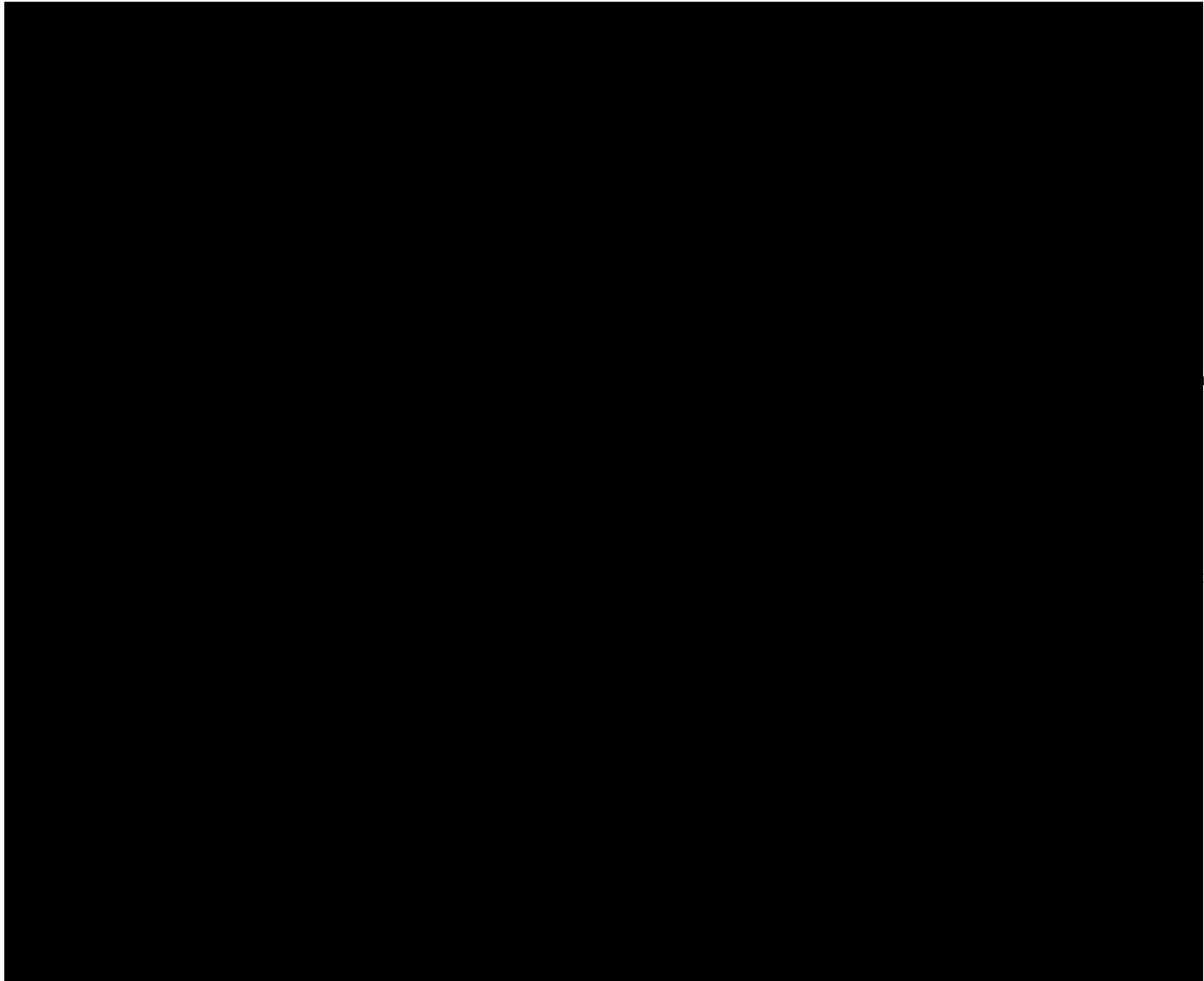
Table of Contents

Member of the Board of Directors and member of Vale's Strategic Committee since October 2012				
Marcel Juviniانو Barros	50	Member of the Board of Directors	4/17/2013	Until 2015 General Shareholders Meeting
029.310.198-10	Bank employee	23 - Board of Directors (deputy)	4/17/2013	Yes
Member of the Executive Development Committee				
Aníbal Moreira dos Santos	74	Fiscal Board	4/17/2013	Until 2014 General Shareholders Meeting
011.504.567-87	Accounting Technician	43 - Fiscal Board (permanent) Elected by Comptroller	4/17/2013	Yes
N/A				
Valeriano Durval Guimarães Gomes	59	Fiscal Board	4/17/2013	Until 2014 General Shareholders Meeting
313.022.547-15	Economist	46 - FISCAL BOARD(deputy) Elected by Comptroller	4/17/2013	Yes
N/A				
Marcelo Amaral Moraes	45	Fiscal Board	4/17/2013	Until 2014 General Shareholders Meeting
929.390.077-72	Graduate in Economy	43 - FISCAL BOARD(permanent) Elected by Comptroller	4/17/2013	Yes
N/A				
Oswaldo Mário Pêgo de Amorim Azevedo	71	Fiscal Board	4/17/2013	Until 2014 General Shareholders Meeting
005.065.327-04	Engineer	46 - FISCAL BOARD(deputy) Elected by Comptroller	4/17/2013	Yes
N/A				
Arnaldo José Vollet	64	Fiscal Board	4/17/2013	Until 2014 General Shareholders Meeting
375.560.618-68	Graduate in Mathematics	43 - FISCAL BOARD(permanent) Elected by Comptroller	4/17/2013	Yes
N/A				
Antônio Henrique Pinheiro Silveira	48	Fiscal Board	4/17/2013	Until 2014 General Shareholders Meeting

Table of Contents

010.394.107-07	Economist	44 - FISCAL BOARD (permanent) Elected by preferred shareholders	4/17/2013	No
N/A				
Paulo Fontoura Valle	49	Fiscal Board	4/17/2013	Until 2014 General Shareholders Meeting
311.625.571-49	Graduate in Physical Education	47 - FISCAL BOARD (deputy) Elected by preferred shareholders	4/17/2013	No
N/A				

Table of Contents



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Table of Contents

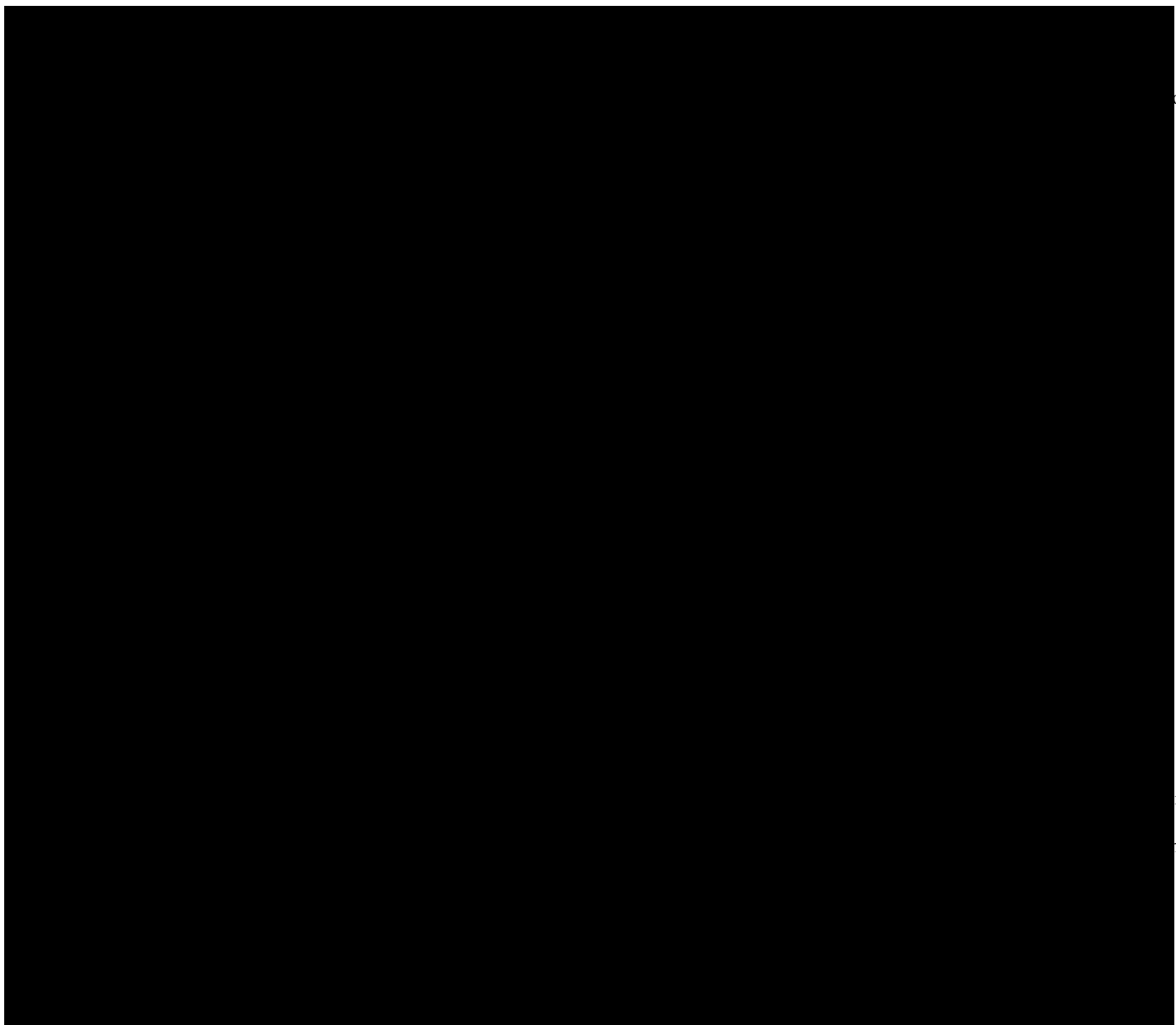
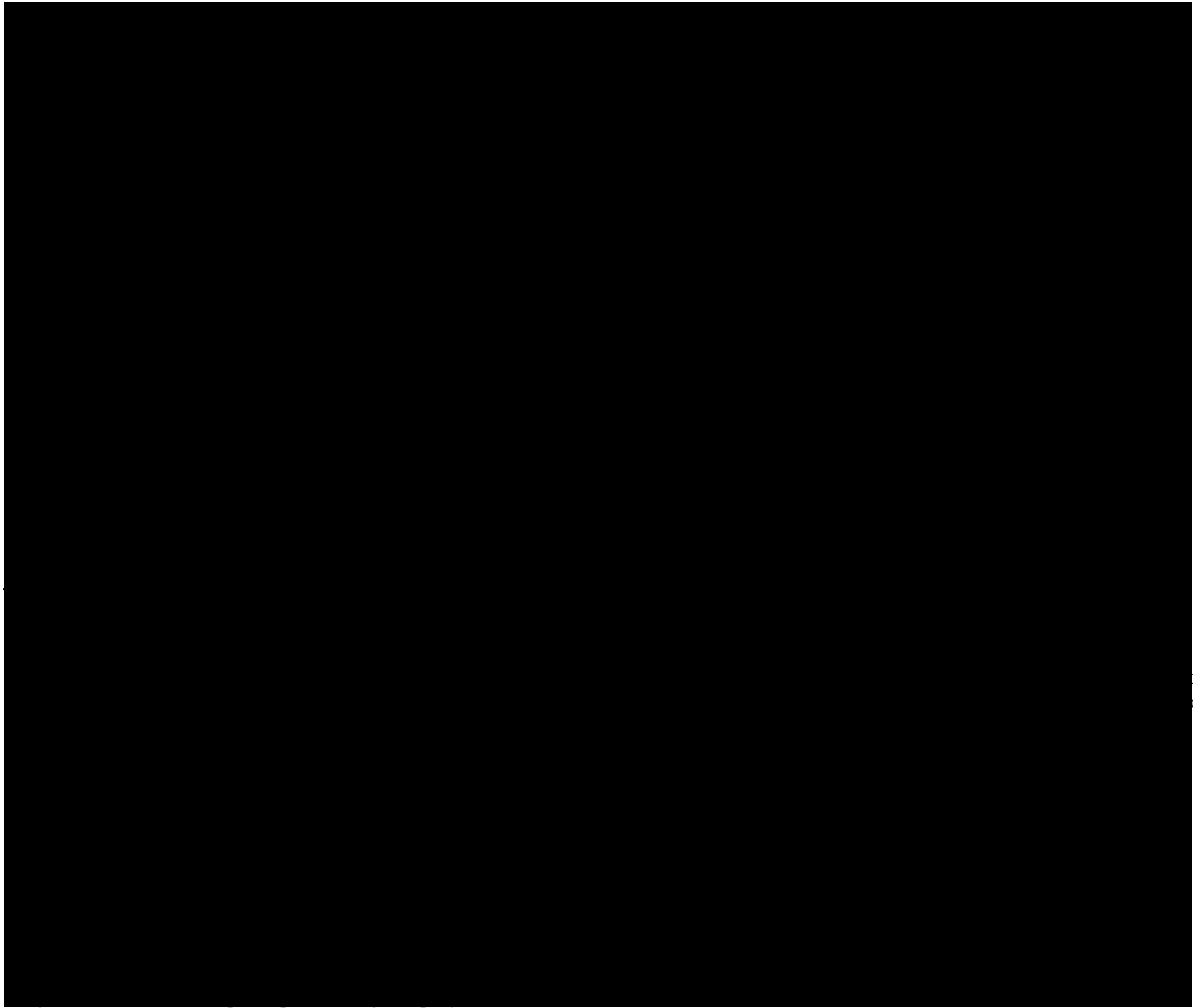


Table of Contents



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Table of Contents

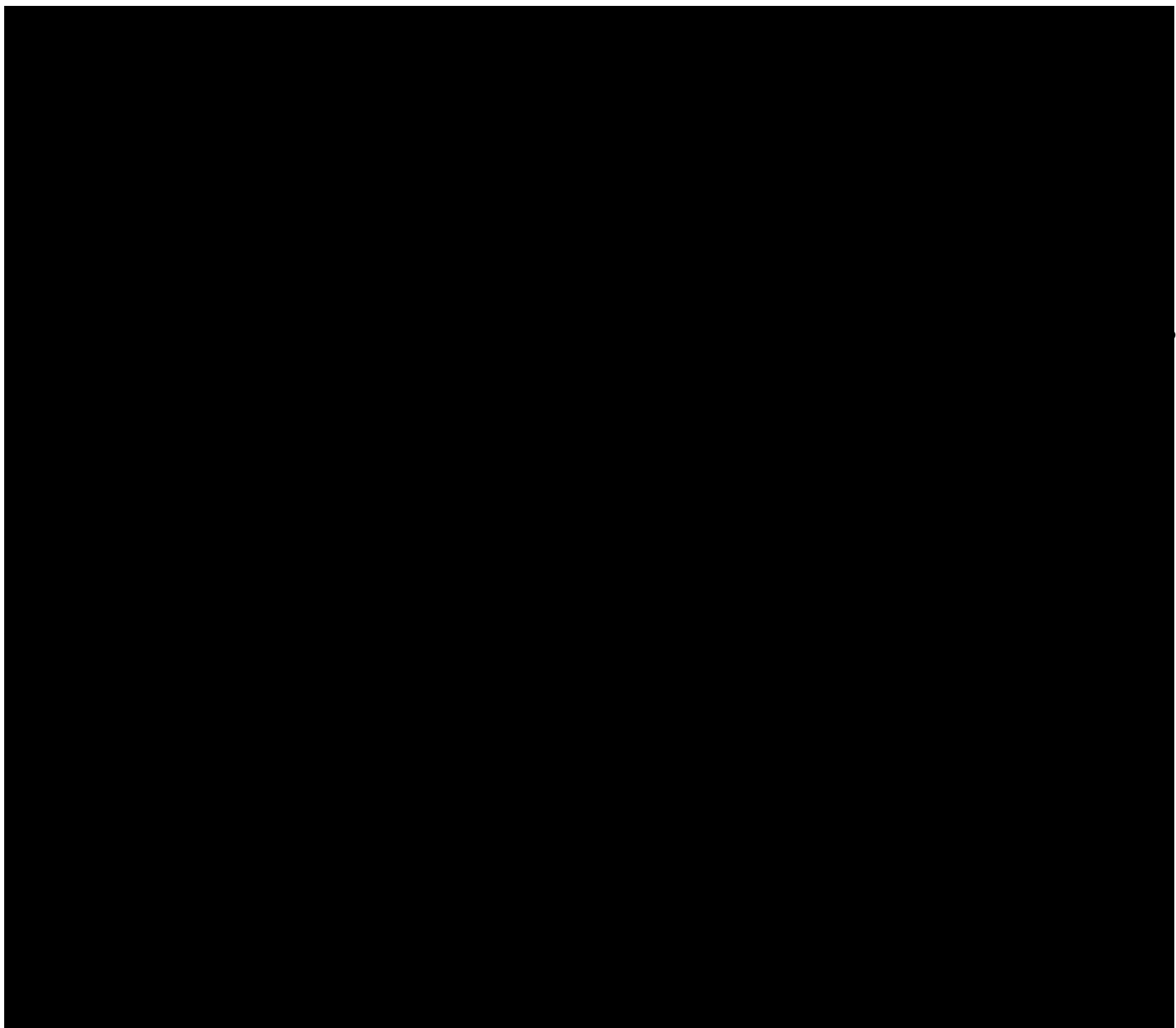


Table of Contents

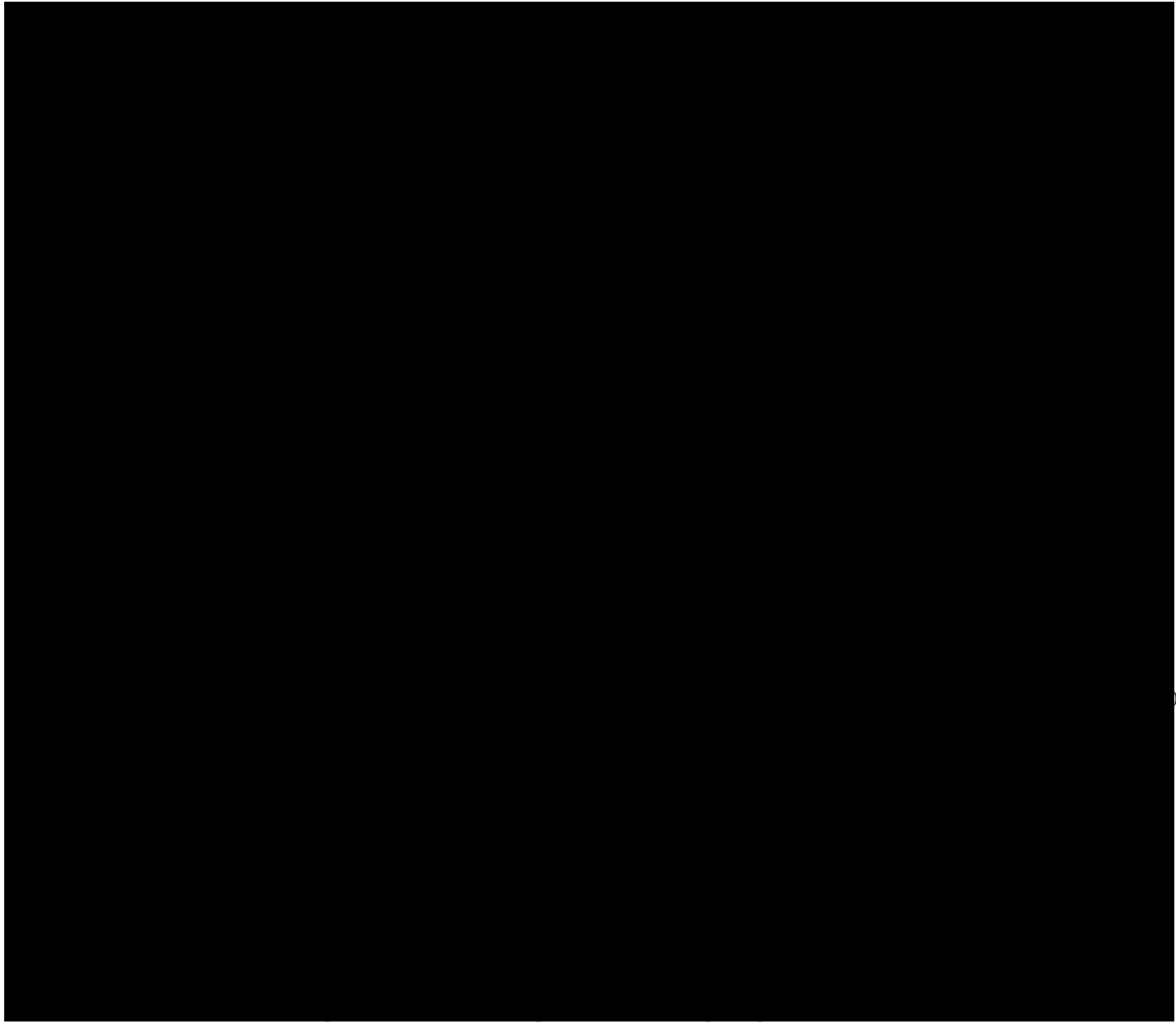


Table of Contents

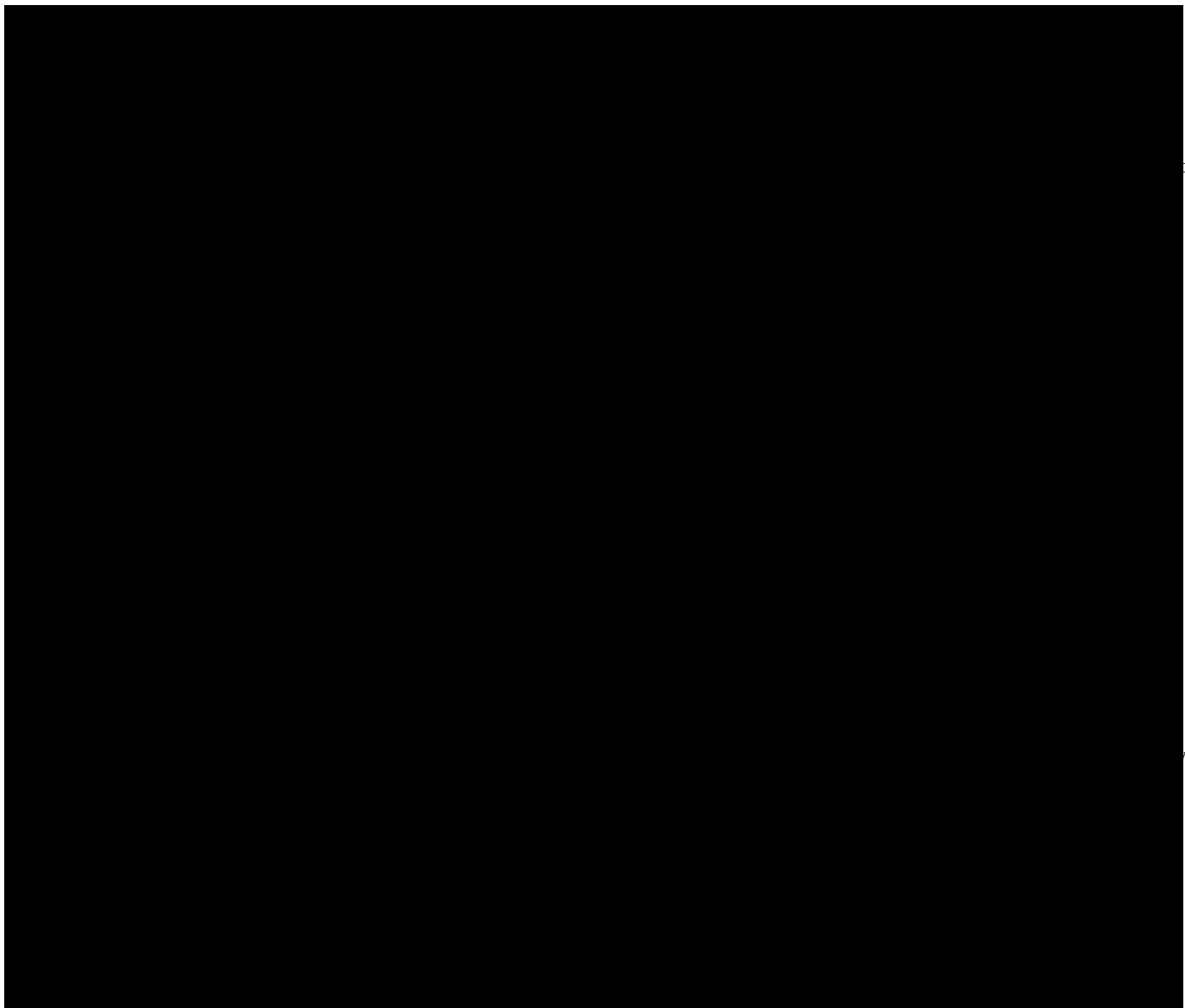


Table of Contents

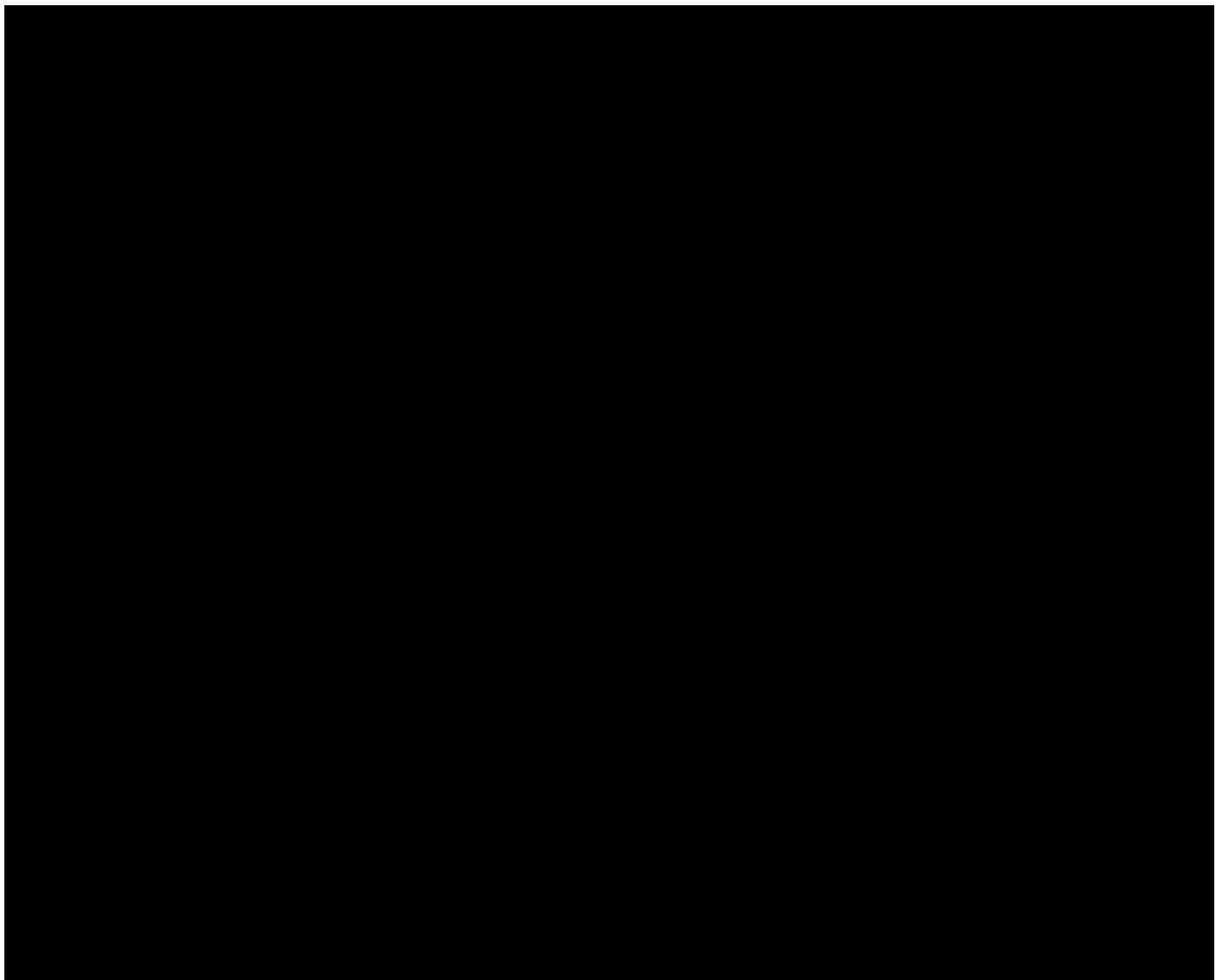


Table of Contents

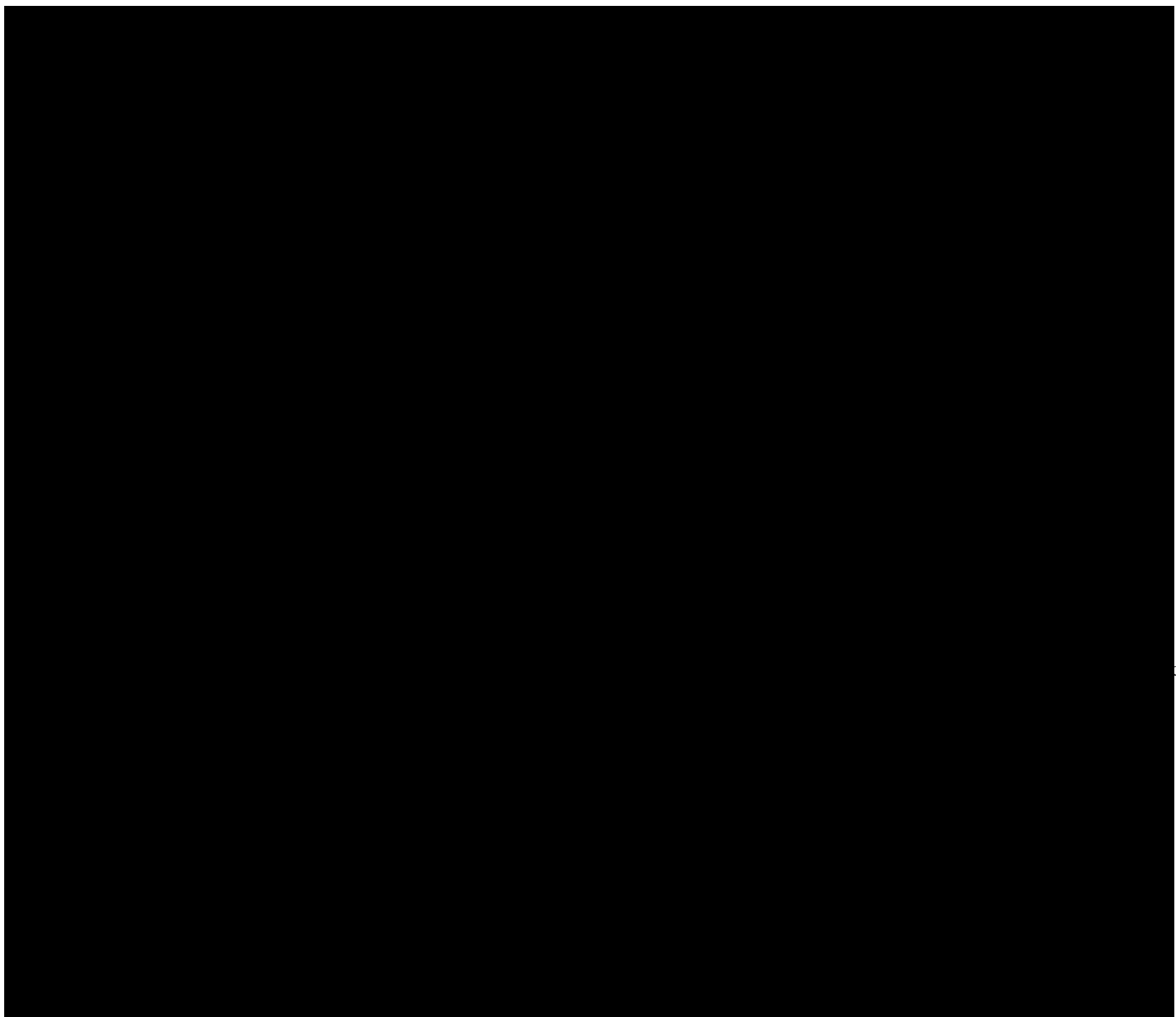


Table of Contents

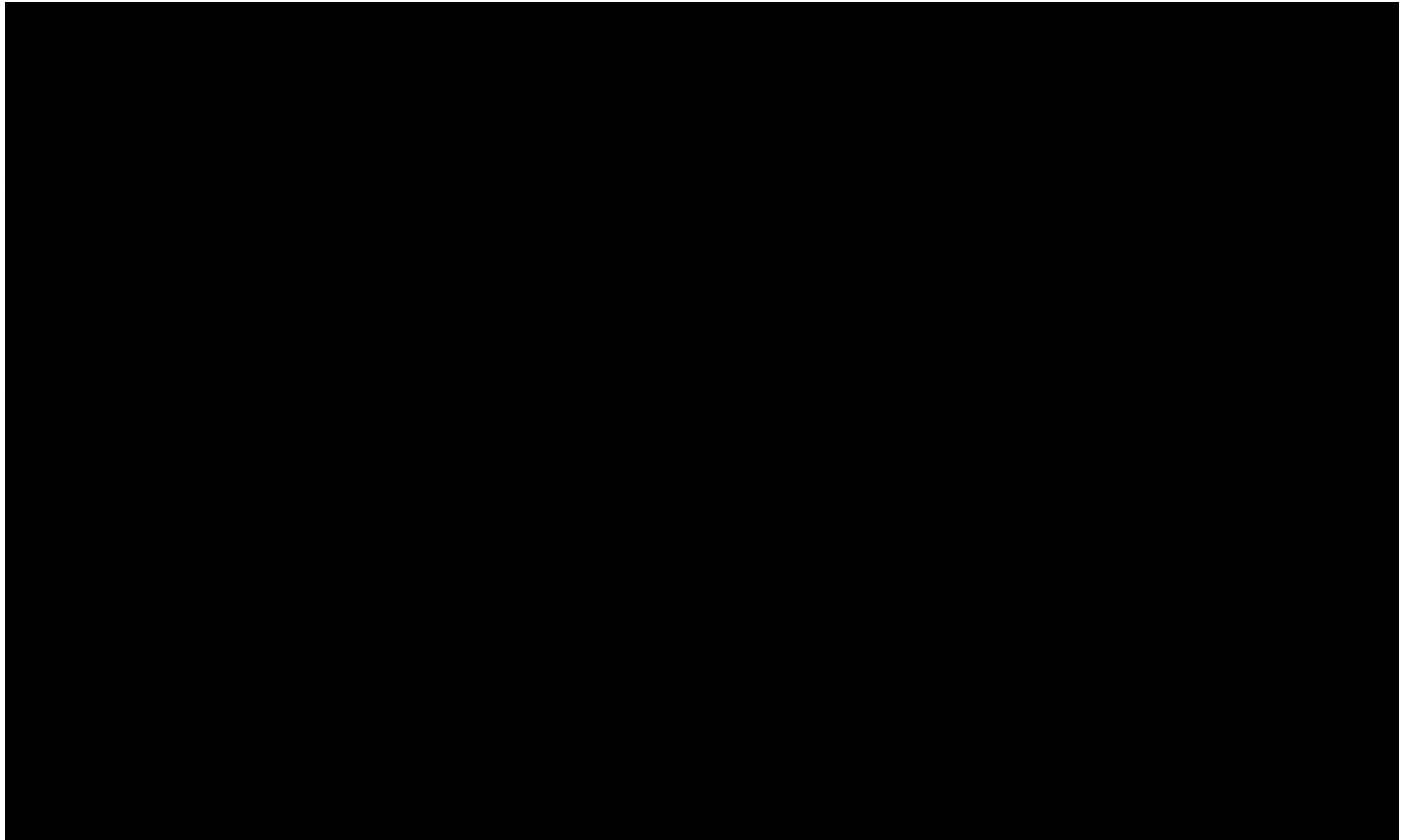


Table of Contents

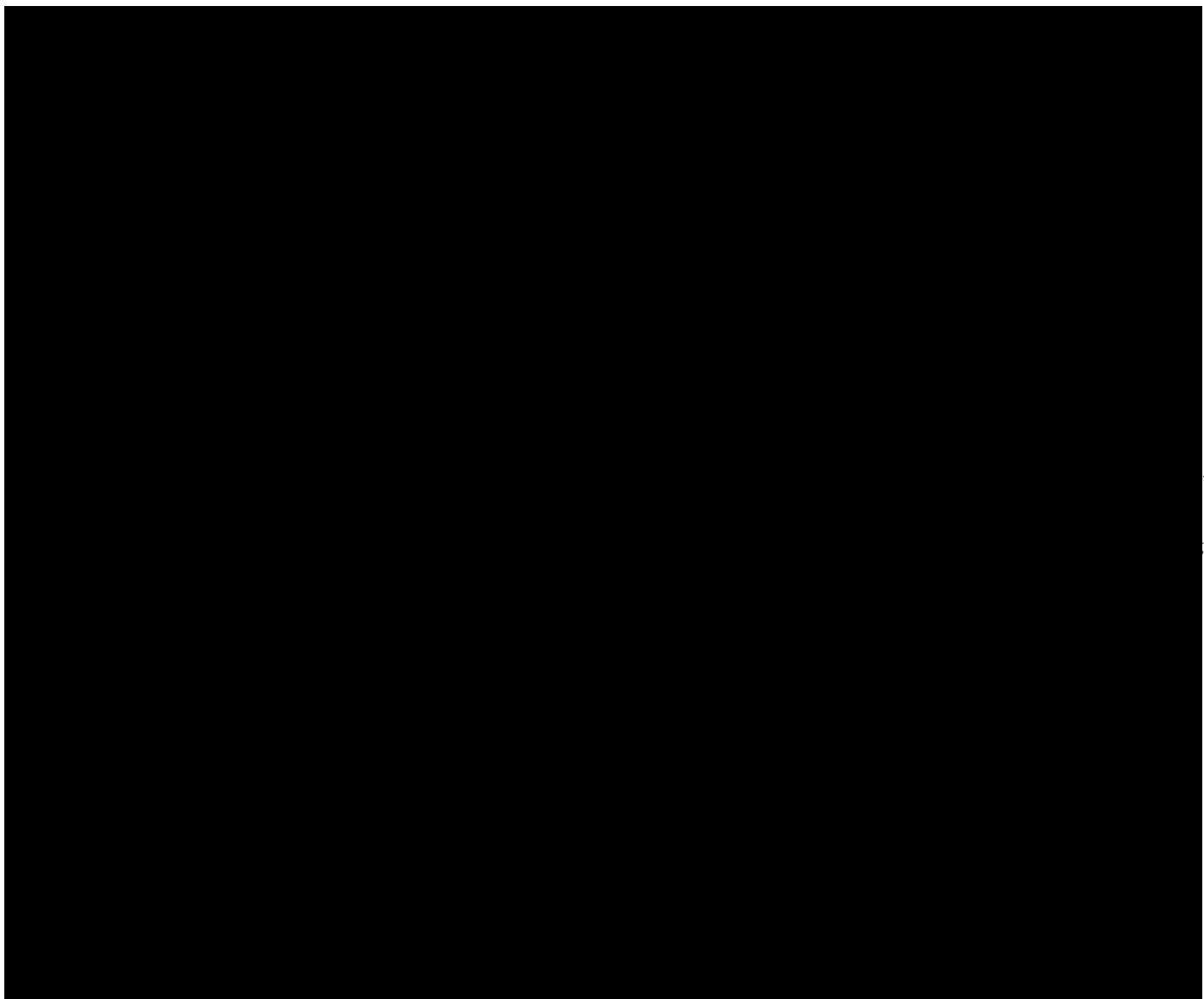


Table of Contents

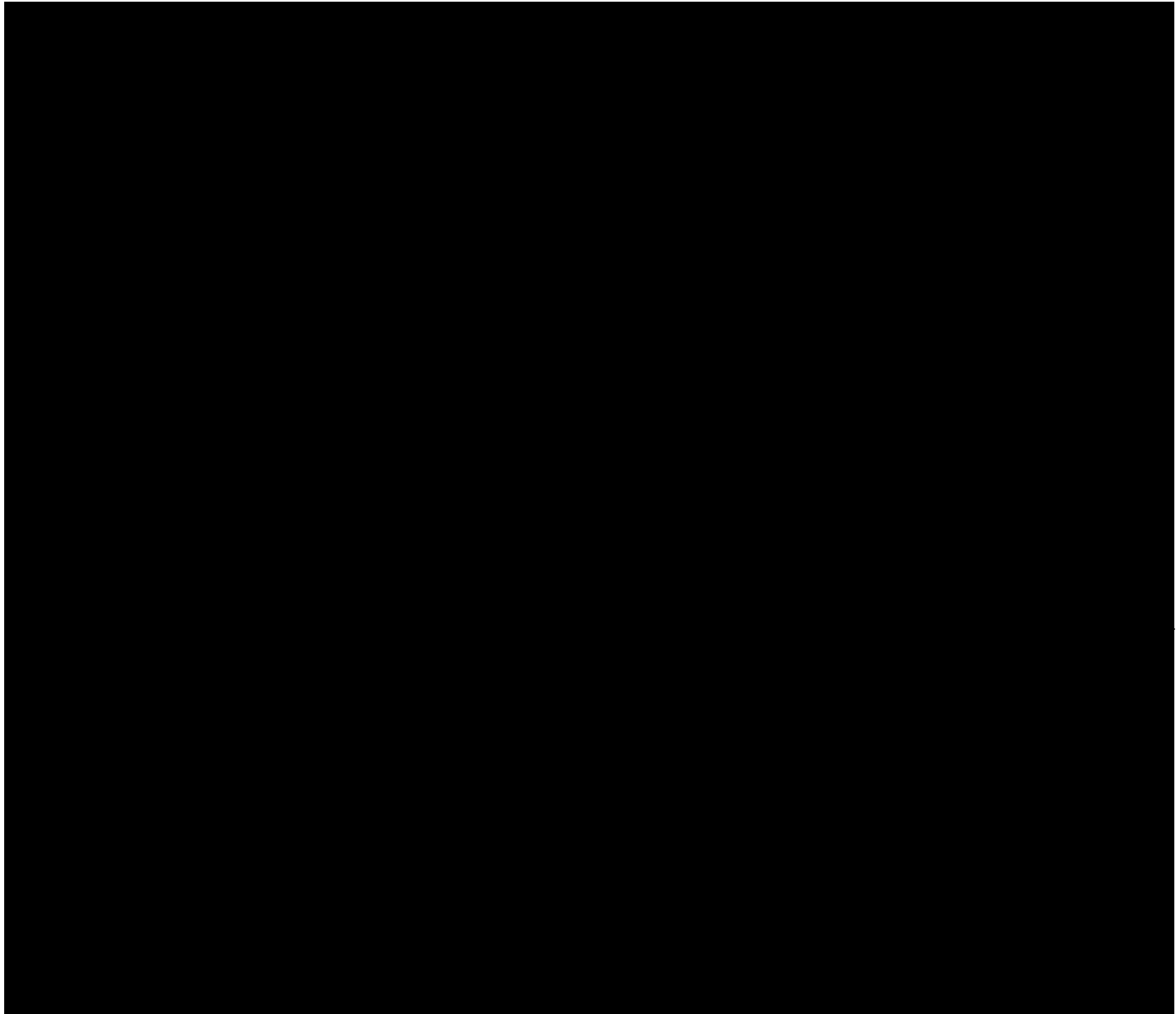


Table of Contents

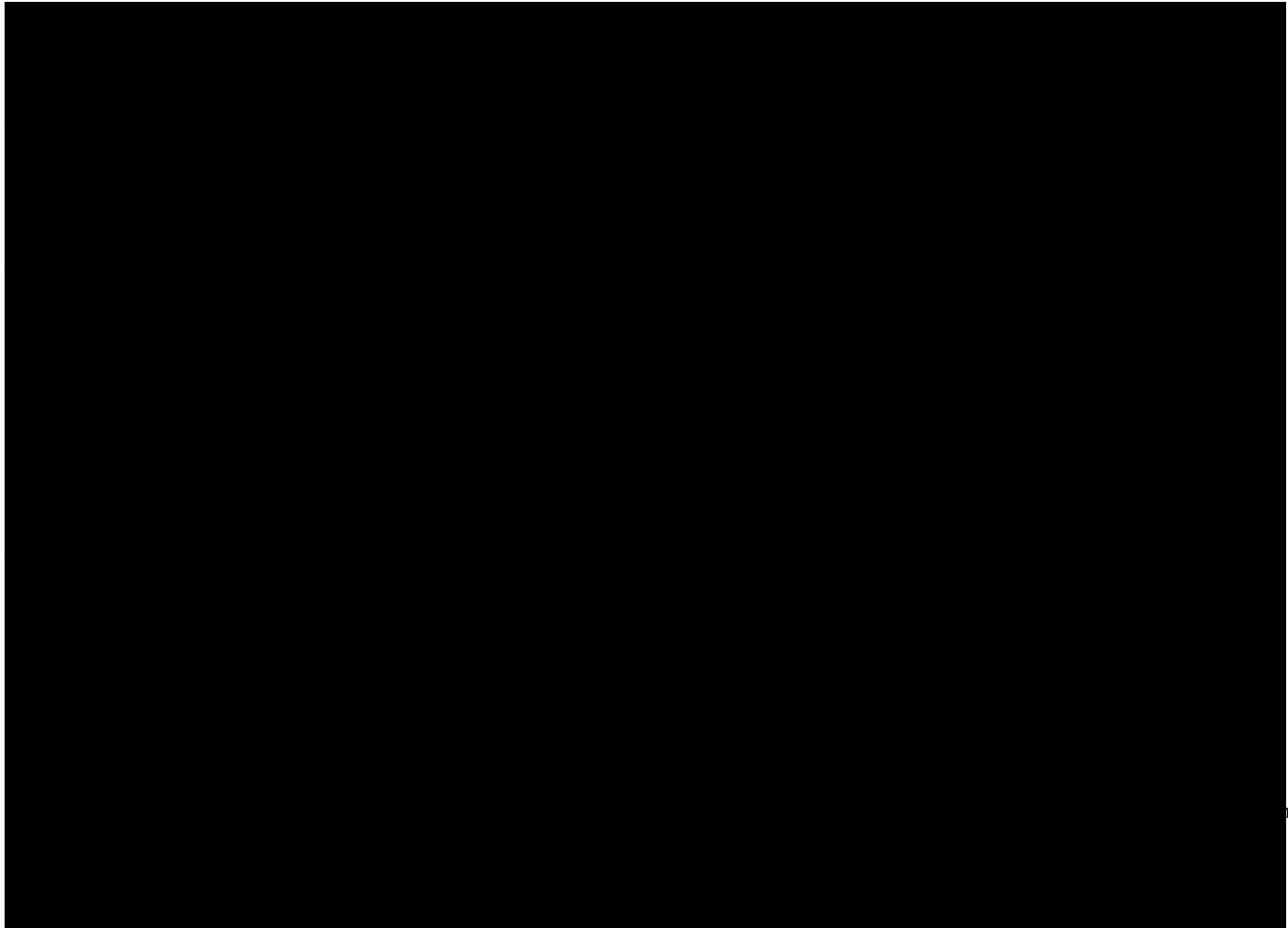


Table of Contents

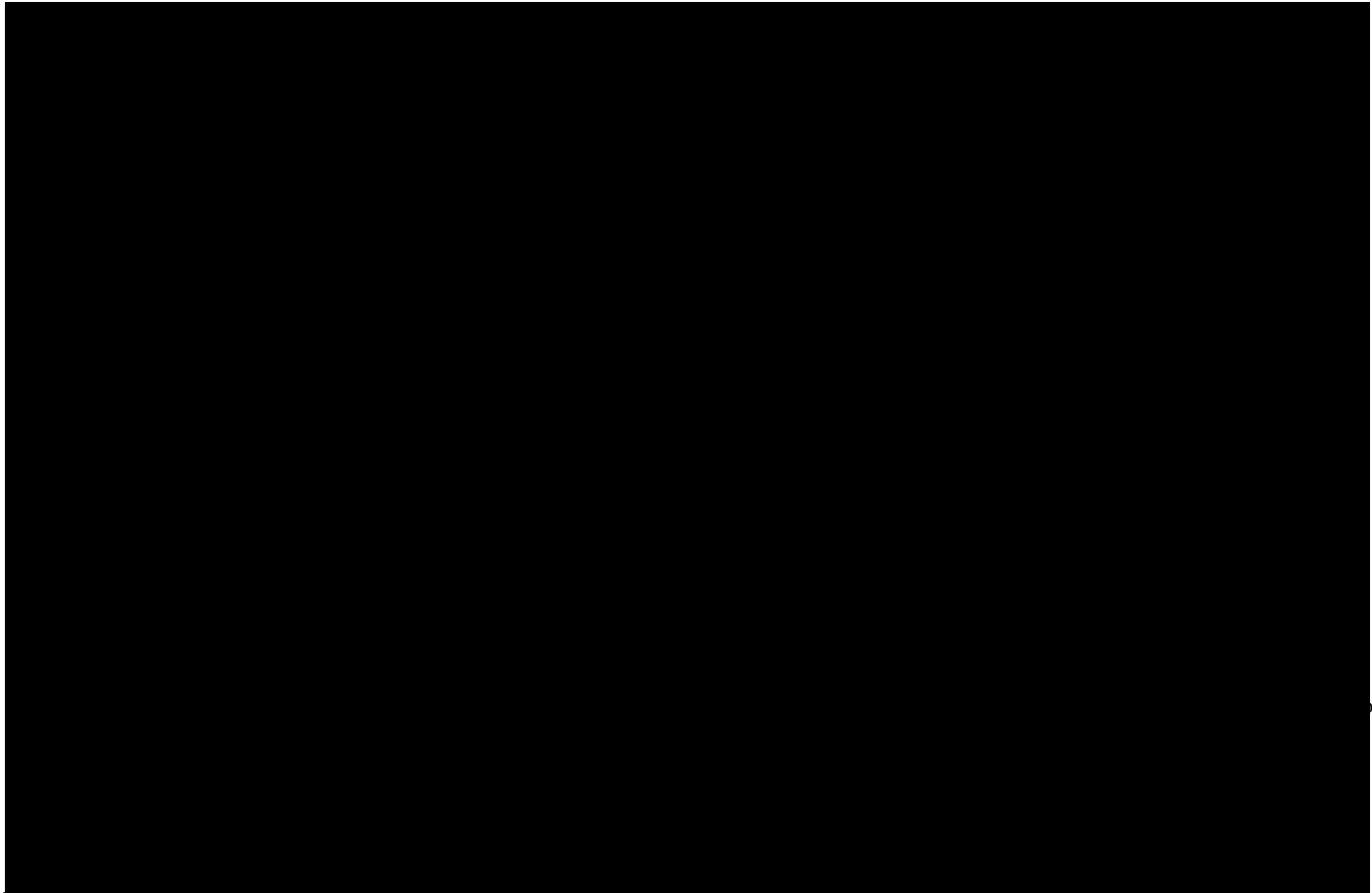


Table of Contents

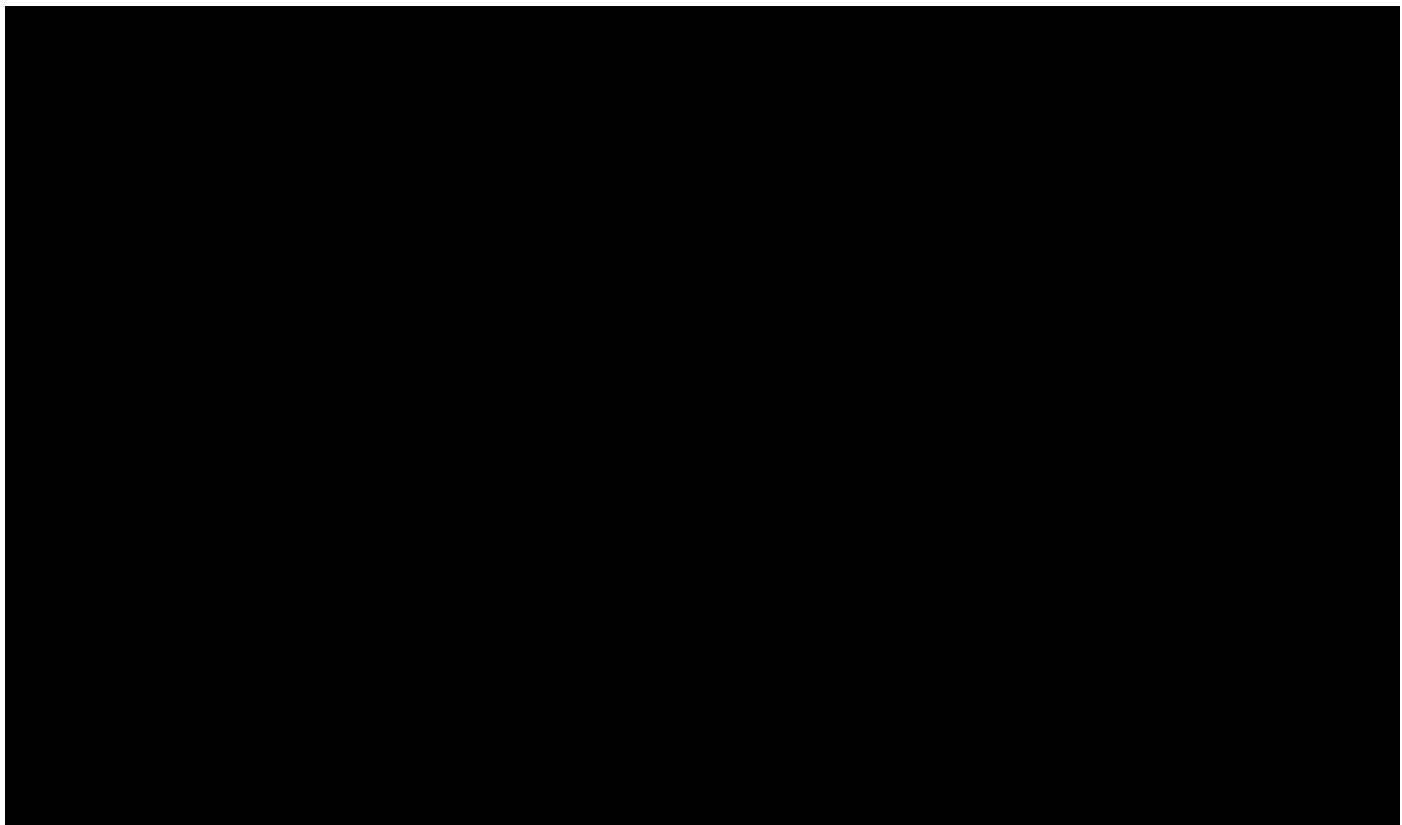


Table of Contents



Table of Contents

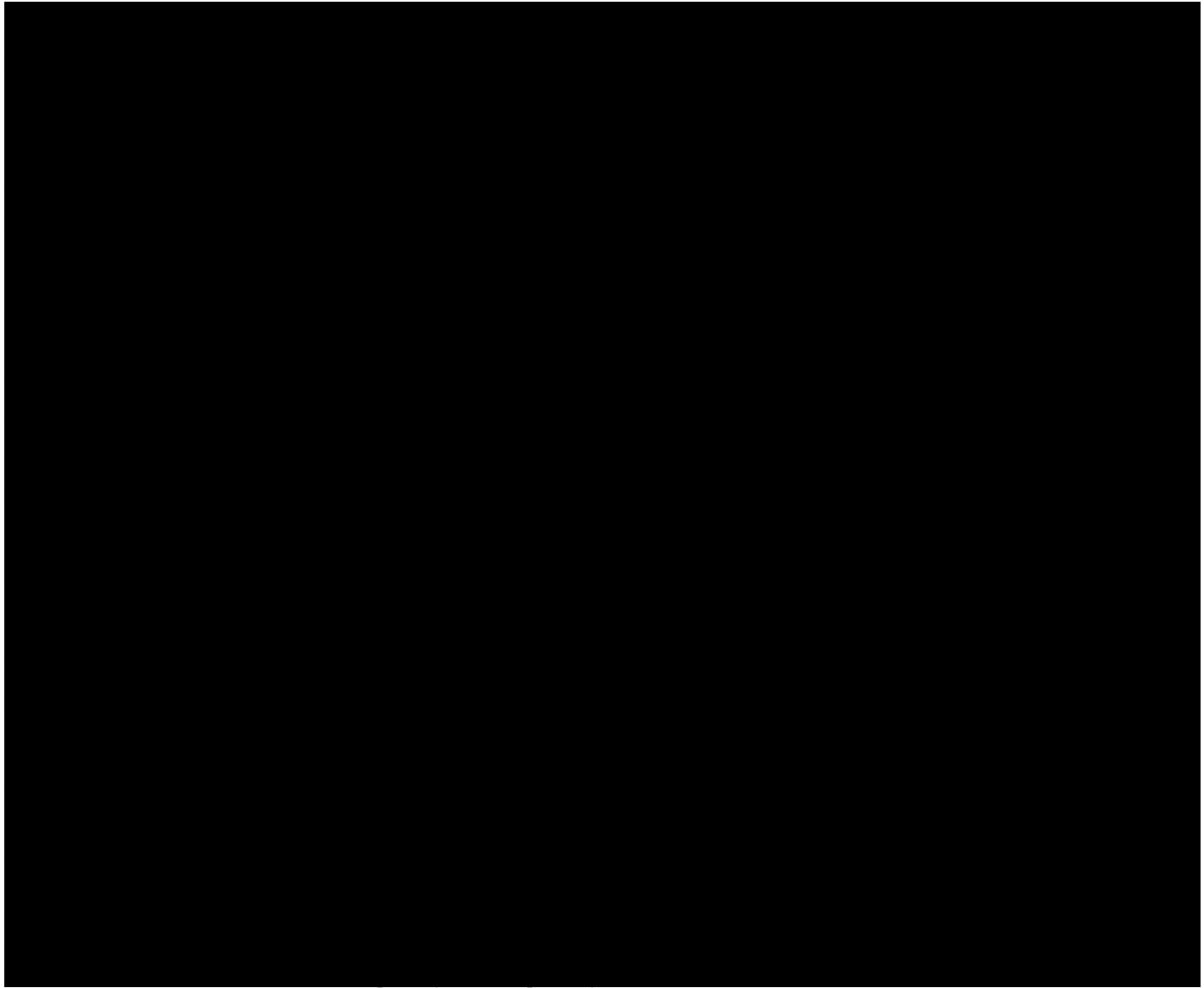


Table of Contents



Table of Contents**12.7 Composition of the statutory committees, and auditing, financial and compensation committees.**

Name CPF Other positions held at company	Committee Other committees	Position Other positions	Occupation Age	Date of election Date of entry	Term
Efrem José Daumas Junior 521.085.206-78 Director of the Department of Operational Improvement	Risk Management Committee	Committee Member (permanent)	Geologist 45	11/14/2011 11/14/2011	November/2013
José Carlos Martins 304.880.288-68 Executive Director of Iron Metals and Strategy	Risk Management Committee	Permanent Member	Economist 63	11/14/2011 11/14/2011	5/25/2015
Luciano Siani Pires 013.907.897-56 Executive Director of Finance, and IR	Risk Management Committee	Others Permanent Member of the Financial Committee and Member of the Disclosure Committee	Mechanic Engineer 43	7/25/2012 8/1/2012	5/25/2015
Roberto Moretzsohn 691.554.107-15	Risk Management Committee	Committee Member (permanent)	Engineer 52	09/01/2012 09/01/2012	January/2014
Sônia Zagury 934.316.517-04 Global Director of Treasury and Finance	Risk Management Committee	Committee Member (permanent)	Economist 45	11/14/2011 11/14/2011	November/2013
Eduardo de Oliveira Rodrigues Filho 442.810.487-15 Deputy Member of the Board of Directors	Financial Committee	Committee Member (permanent)	Engineer 58	4/24/2013 4/24/2013	Until 2015 General Shareholders Meeting
Luciana Freitas Rodrigues 759.395.847-72 N/A	Financial Committee	Committee Member (permanent)	Statistics and Actuarial 46	4/24/2013 4/24/2013	Until 2015 General Shareholders Meeting
Luciano Siani Pires 013.907.897-56	Risk Management Committee	Others	Mechanic Engineer 43	4/24/2013 4/24/2013	Until 2015 General Shareholders Meeting

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Executive Director of Finance, and IR		Permanent Member of the Financial Committee and Member of the Disclosure Committee			
Luiz Maurício Leuzinger	Financial Committee	Committee Member (permanent)	Engineer	4/24/2013	Until 2015 General

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Table of Contents

009.623.687-68		Member of the Executive Development Committee(permanent)	71	4/24/2013	Shareholders Meeting
Deputy Member of the Board of Directors and Member of the Executive Development Committee					
Clovis Torres Junior	Other Committees	Committee Member (permanent)	Lawyer	7/18/2011	Undetermined
423.522.235-04	Information Disclosure Committee		45	7/18/2011	
General Consultant					
Dan Antonio Marinho Conrado	Other Committees	Committee Member (permanent)	Bank Employee	4/24/2013	Until 2015 General Shareholders Meeting
754.649.427-34	Strategic Committee		48	4/24/2013	
General Consultant					
Gilmar Dalilo Cezar Wanderley	Other Committees	Committee Member (permanent)	Bank Employee	4/24/2013	Until 2015 General Shareholders Meeting
084.489.987-90			33	4/24/2013	
Marcel Juviniانو Barros	Other Committees	Committee Member (permanent)	Bank Employee	4/24/2013	Until 2015 General Shareholders Meeting
029.310.198-10	Executive Development Committee		50	4/24/2013	
Member of the Board of Directors					
Laura Bedeschi Rego de Mattos	Other Committees	Committee Member (permanent)	Chemical Engineer	4/24/2013	Until 2015 General Shareholders Meeting
253.585.728-64	Executive Development Committee		37	4/24/2013	
Tatiana Boavista Barros Heil	Other Committees	Committee Member (permanent)	Chemical Engineer	4/24/2013	Until 2015 General Shareholders Meeting
028.694.677-70	Governance and Sustainability Committee		39	4/24/2013	
Luciano Galvão Coutinho	Other Committees	Committee Member (permanent)	Economist	4/24/2013	Until 2015 General Shareholders Meeting

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636.831.808-20	Strategic Committee		66	4/24/2013	
Member of the Board of Directors					
Luciano Siani Pires	Other Committees	Other	Economist	7/25/2012	5/25/2015
		Permanent Member			
013.907.897-56	Disclosure Committee		66	8/1/2012	
Executive Director of Finance, and Investors Relations and Permanent Member of the Financial Committee and the Risk Management Committee					
Luiz Carlos de Freitas	Other Committees	Permanent Committee Member	Accountant	4/24/2013	Until 2015 General

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Table of Contents

659.575.638-20	Comptroller Committee		60	4/24/2013	Shareholders Meeting
Deputy Member of the Board of Directors					
Luiz Maurício Leuzinger	Other Committees	Committee Member (permanent)	Engineer	4/24/2013	Until 2015 General Shareholders Meeting
		Member of the Executive Development Committee(permanent)			
009.623.687-68	Executive Development Committee		71	4/24/2013	
Deputy Member of the Board of Directors and Member of the Financial Committee					
Marcelo Botelho Rodrigues 871.892.327-53	Other Committees Disclosure Committee	Committee Member (permanent)	Accountant	9/13/2010	Undetermined
Comptroller					
Mário da Silveira Teixeira Júnior	Other Committees	Committee Member (permanent)	Bank Employee	4/24/2013	Until 2015 General Shareholders Meeting
113.119.598-15	Strategic Committee		67	4/24/2013	
Vice Chairman of the Board of Directors					
Murilo Pinto de Oliveira Ferreira	Other Committees	Others	Business Administrator	4/24/2013	Until 2015 General Shareholders Meeting
212.466.706-82	Strategic Committee	Permanent Member	59	4/24/2013	
Managing Director of Vale and Permanent Member of the Disclosure Committee					
Murilo Pinto de Oliveira Ferreira 212.466.706-82	Other Committees Information Disclosure Committee	Others Permanent Member	Business Administrator	5/19/2011 5/20/2011	5/22/2015
Managing Director of Vale and Permanent Member of the Disclosure Committee					
Oscar Augusto de Camargo Filho	Other Committees	Committee Member (permanent)	Lawyer	4/24/2013	Until 2015 General Shareholders Meeting
030.754.948-87	Strategic Committee	Member of the Executive Development Committee	75	4/24/2013	
Member of the Board of Directors and Member of the Executive Development Committee					
Oscar Augusto de Camargo Filho	Other Committees	Committee Member (permanent)	Lawyer	4/24/2013	Until 2015 General

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030.754.948-87	Executive Development Committee		75	4/24/2013	Shareholders Meeting
Member of the Board of Directors and Member of the Strategic Committee					
Paulo Ricardo Ultra Soares	Other Committees	Others	Graduate in Law	4/24/2013	Until 2015 General Shareholders Meeting
Paulo Roberto Ferreira de Medeiros	Other Committees	Others	Administrator	4/24/2013	Until 2015 General Shareholders Meeting

Table of Contents

024.772.117-49	Comptroller Committee	Independent Member	71	4/24/2013	
N/A					
Renato de Cruz Gomes	Other Committees	Committee Member (permanent)	Engineer	4/24/2013	Until 2015 General Shareholders Meeting
426.961.277-00	Governance and Sustainability Committee		60	4/24/2013	
Member of the Board of Directors					
Ricardo Simonsen	Other Committees	Others	Mechanical Engineer	4/24/2013	Until 2015 General Shareholders Meeting
733.322.167-91	Governance and Sustainability Committee	Independent Member	51	4/24/2013	
N/A					
Roberto of Cunha Castello Branco	Other Committees	Committee Member (permanent)	Economist	6/19/2002	Undetermined
031.389.097-87	Information Disclosure Committee		67	6/19/2002	
Non-Statutory Director of Relations with Investors					

Table of Contents

12.9 Existence of relationship (as a spouse or significant other) or kinship to the second degree related to managers of the company, entities controlled by the Company, and controlling shareholders

Justification for not completing the chart:

Each and every Member of the Board of Directors, Executive Board and Fiscal Board of Vale have declared, individually for all lawful purposes, that he or she is not related (as spouse, or significant other) or has any other kindred relationship to the second degree to (i) managers of Vale; (ii) managers of companies controlled directly or indirectly by Vale; (iii) Vale's direct or indirect controlling shareholders; and (iv) the members of management of Vale's direct or indirect controlled entities.

In addition, all members of the Board of Directors, the Executive Board and of the Fiscal Board of companies controlled directly or indirectly by Vale have declared individually for all lawful purposes that they have no conjugal or stable union or kinship to the second degree with entities controlled directly or indirectly by Vale.

12.10 Subordination, rendering of services or control relationships the between directors/officers, entities controlled by the Company, controlling shareholders, and others

Justification for not completing the chart:

All members of the Board of Directors, the Executive Board, and the Fiscal Board have declared individually for all legal purposes that there have been no relationships for rendering services or for control, maintained over the past three (3) fiscal years between them and (i) a company controlled directly or indirectly by Vale; (ii) the controllers, direct or indirect, of Vale; or (iii) relevant suppliers, clients, debtors, or creditors of Vale, its controlled companies or its controllers.

12.11 Agreements, including insurance policies for the payment or reimbursement of expenses incurred by directors/officers

Vale maintains a global coverage liability insurance policy for Directors and Administrators with a group of insurers lead by Zurich Insurance, Plc, through payment of a premium of US\$ 1,495,800.00, in effect between 3/1/2013 and 3/1/2014, and with total indemnity limit corresponding to US\$ 200 million. This insurance covers members of the Board of Directors, Executive Board, Fiscal Board, and any other body mentioned in the Bylaws, as well as certain employees at the management and strategic levels, in both the Company and its subsidiaries (collectively referred to as the Insured). The policy covers financial losses resulting from claims against the Insured for acts or omissions in the exercise of their functions of employment. The policy, in addition to contemplating the repair of damages caused to third parties, Vale, and its controlled companies brought by government agencies, also covers agreements previously authorized by the insurer for the purpose of bringing to a close judicial or administrative suits. In addition, the policy provides coverage for payment of defense costs of the Insured, if and when incurred. In addition to those coverage mentioned above, the insurance provides additional guarantees for liability cases that may affect spouses, heirs, successors, legal representatives, and persons designated by Vale to act as managers of external entities.

12.12 Other relevant information

Regarding item 12.3, Vale hereby notes that the publication of the notice to shareholders about availability of financial statements in 2011, 2010 and 2009, was not done, under the terms in § 5, in article 133 in the Law of Corporations, considering such documents were published up to one (1) month before the general shareholders meeting.

Information about quorum and installation of shareholders meetings

Below we present information regarding installation of our shareholders meetings in the last three fiscal years:

Table of Contents

Date	5/7/2013
Type of Shareholders Meeting	Extraordinary
Installation upon second calling	Yes
Installation Quorum	The meeting was installed with shareholders representing 57% of our voting capital.
Date	4/17/2013
Type of Shareholders Meeting	General
Installation upon second calling	No
Installation Quorum	The meeting was installed with shareholders representing 61.24% of our voting capital.
Date	4/18/2012
Type of Shareholders Meeting	General
Installation upon second calling	No
Installation Quorum	The meeting was installed with shareholders representing 54.51% of our voting capital.
Date	5/18/2011
Type of Shareholders Meeting	Special
Installation upon second calling	Yes
Installation Quorum	The meeting was installed with shareholders representing 52.91% of our voting capital.
Date	4/19/2011
Type of Shareholders Meeting	General
Installation upon second calling	No
Installation Quorum	The meeting was installed with shareholders representing 60.35% of our voting capital.
Date	6/22/2010
Type of Shareholders Meeting	Special
Installation upon second calling	No
Installation Quorum	The meeting was installed with shareholders representing 51.23% of our voting capital.
Date	5/19/2010
Type of Shareholders Meeting	Special
Installation upon second calling	Yes
Installation Quorum	The meeting was installed with shareholders representing 52.20% of our voting capital.

Table of Contents

Date	4/27/2010
Type of Shareholders Meeting	General
Installation upon second calling	No
Installation Quorum	The meeting was installed with shareholders representing 57.31% of our voting capital.

Date	1/22/2010
Type of Shareholders Meeting	Special
Installation upon second calling	No
Installation Quorum	The meeting was installed with shareholders representing 52.36% of our voting capital.

Information on items 12.6 and 12.8

Regarding items 12.6 and 12.8, Vale reports that at the meeting of the Board of Directors held on March 27, 2013, there was approval for the reappointment of all members of the Executive Board to serve for another two-year management term, to be counted from the end of the former management term, which closed on May 25, 2013.

Table of Contents

13.1 Description of the compensation policy or practices for the Executive Board, the Statutory and Non-Statutory Boards, the Fiscal Committee, the Statutory Committees and the Audit, Risk, Finance, and Compensation Committees, covering the following topics:

a. Objectives of the compensation policy or practices

According to the provisions of Article 10, Paragraph 3 of the Bylaws of the Company, the Managers of the Company's overall and annual compensation is set at the Annual General Meeting, and takes into account their responsibilities, the time they dedicate to their functions, their competence and professional reputation, and the market value of their services.

Vale is one of the largest diversified mining companies in the world, and one of the largest private companies in Latin America. It has operations in over thirty countries, a market value of some US\$111 billion, over 400,000 shareholders on every continent, and around 85,000 employees and 51,000 subcontracted workers active in its operations.

Clearly, Vale is a global company of great complexity and magnitude, whose administration requires an in-depth understanding of its area of business and market, combined with total commitment.

As a global company, Vale is aware that retaining and engaging the right professionals in key roles, especially Executive Directors, is critical for its success in the mid and long terms. As such, the market is always the benchmark from the perspective of global competition, taking into account important competitors, such as the top mining companies and other large global enterprises.

The main factor for compensation and the main objective of the compensation policy adopted is the company's performance and growth in the short, medium, and long terms, in line with its strategic plan, while also assuring shareholder value. The compensation policy therefore prioritizes serving the company's business.

b. Composition of compensation packages

(i) Description of the different elements of the compensation packages and the objectives of each of them.

Executive Board

Fixed Monthly Compensation

Pró-labore. The compensation for the members of the Executive Board is made up exclusively of the payment of a fixed monthly fee. This fixed compensation is designed to remunerate the services of each board member, within their scope of responsibility as members of Vale's Executive Board. The overall annual compensation for the Managers, including the members of the Executive Board, the Statutory Board, the Fiscal Council and the advisory committees is set at the annual general meeting and distributed by the Executive Board.

Direct and indirect benefits. The members of the Executive Board do not have the right to direct or indirect benefits.

Participation on Committees. The members of the Executive Board do not have the right to remuneration for participation on committees.

Table of Contents

Variable Remuneration

The members of the Executive Board do not have the right to variable remuneration, including bonuses, profit sharing, participation in meetings, and commissions.

Post-employment Benefits

The members of the Executive Board do not have the right to post-employment benefits.

Benefits Resulting from the Termination of Holding a Position

The members of the Executive Board do not have the right to benefits resulting from the termination of holding a position.

Remuneration Based on Shares

The members of the Executive Board do not have the right to remuneration based on shares.

Fiscal Board

Fixed Monthly Compensation

Pro-labore. The compensation for the members of the Fiscal Board is made up of a fixed monthly fee (honorarium), excluding benefits, representation monies, and profit shares. Deputies are compensated when they undertake the function when a seat is vacant, or when the member of the board in question is absent or unable to exercise the function. The aim of the fixed compensation is to remunerate the services of each board member, within their scope of responsibility as members of the Company's Fiscal Board. The fees for Fiscal Board members are adjusted in line with any adjustment made to the Executive Directors' compensation.

Direct and Indirect Benefits. Members of the Fiscal Board do not have the right to direct or indirect benefits.

Participation on Committees. The members of the Fiscal Board do not have the right to remuneration for participation on committees.

Variable Remuneration

The members of the Fiscal Board do not have the right to variable remuneration, including bonuses, profit sharing, participation in meetings, and commissions.

Post-employment Benefits

The members of the Fiscal Board do not have the right to post-employment benefits.

Benefits Resulting from the Termination of Holding a Position

The members of the Fiscal Board do not have the right to benefits resulting from the termination of holding a position.

Remuneration Based on Shares

The members of the Fiscal Board do not have the right to remuneration based on shares.

Advisory Committees

Fixed Monthly Compensation

The members of the Advisory Committees do not have the right to fixed remuneration, direct and indirect benefits.

Table of Contents

Variable Remuneration

The members of the Advisory Committees do not have the right to bonuses, profit sharing, or commissions.

Participation in Meetings. The compensation for the members of the Executive Board Advisory Committees (Strategy Committee, Finance Committee, Executive Development Committee, Financial Control Committee, and Governance and Sustainability Committee) is paid for each meeting an executive effectively takes part in. As set forth in Paragraph 2 of Article 15 of Vale's Bylaws, the committee members who are Vale Managers will not be eligible for extra compensation for sitting on the committees. The aim of the compensation is to remunerate each member's services within the scope of their responsibility as members of the Company's respective Advisory Committees. The compensation for Advisory Committee members is adjusted in line with the compensation paid to members of the Executive Board.

Post-employment Benefits

The members of the Advisory Committees do not have the right to post-employment benefits.

Benefits Resulting from the Termination of Holding a Position

The members of the Advisory Committees do not have the right to benefits resulting from the termination of holding a position.

Remuneration Based on Shares

The members of the Advisory Committees do not have the right to remuneration based on shares.

Executive Board (Statutory Directors)

Fixed Monthly Compensation

Pro-labore. The aim of the fixed monthly compensation is to remunerate the services rendered by the statutory directors within the scope of their individual responsibility in managing the Company.

Direct and indirect benefits. Package of benefits that is compatible with market practices, including private healthcare, hospital and dental care, a designated car with driver, private pension scheme and life insurance. Not only are the benefits in line with market practices, but they are also aimed at assuring the executives and their dependents peace of mind when it comes to fundamental issues such as healthcare.

Participation on Committees. The members of the Executive Board do not have the right to remuneration for participation on committees.

Variable compensation

Bonus. Variable annual payment (bonus) based on the Company's earnings and defined by indicators and objectives, measurable targets derived from the strategic plan, and the annual budget approved by the Executive Board. While assuring market competitiveness, the main aim of the bonus is to acknowledge an executive's contribution to the Company's performance and earnings.

Others. The members of the Executive Board do not have the right to profit sharing, participation in meetings, or commissions.

Post-employment benefits

Statutory Directors may have medical healthcare, hospital and dental care paid by the Company up to 12 (twelve) months after their termination, in order to allow them to look for alternatives outside the corporative plan, plus life insurance and financial benefit as mentioned on item 13.12 of this Reference Form.

Benefits Resulting from the Termination of Holding a Position

The members of the Executive Board do not have the right to benefits resulting from the termination of holding a position.

Table of Contents

Compensation based on shares

Long-Term Incentive Plan (ILP, as per the acronym in Portuguese)

Long-term variable payment based on the Company's expected performance in the future, with the aim of retaining and engaging the Executives and aligning them with the future vision of the Company. The program was introduced in 2007, the first payment having been made in January 2010. For further details, please see item 13.4 of the Reference Form.

Matching

Like the ILP, Matching is a variable, long-term form of compensation based on the Company's expected performance in the future. The main aim of this scheme is to encourage an owner's vision, while also helping to retain executives and reinforce a sustained performance culture. For further details, see item 13.4 of the Reference Form.

Items 13.1 (a) (ii), (c) and (d) below, describe in detail the methodology for calculation used to determine the value of the compensation of the Executive Board, pursuant to what is above stated.

Non-Statutory Board

The non-statutory directors are Company employees with a labor contract. There are two groups of executives that fall into this category: (i) level 5 directors, who normally hold global corporate or business unit functions; and (ii) level 4 directors, who generally hold regional or local corporate functions, or are responsible for operational systems or areas in the Company's different businesses.

Fixed Monthly Compensation

Fixed Salary. Monthly amount based on the Company's organizational chart. The aim of the fixed salary is, as set out in the labor contract signed by each executive, to remunerate the services rendered within the scope of responsibility attributed to them in undertaking their respective duties within the company.

Direct and indirect benefits. Package of benefits compatible with market practices, including medical healthcare, hospital and dental care, private pension scheme (Valia) and life insurance. Not only are the benefits in line with market practices, but they are also aimed at assuring the executives and their dependents peace of mind when it comes to fundamental issues such as healthcare. For more information about the

Complementary Benefits plan (Valia), see item 13.10 of the Reference Form.

Participation on Committees. The non-statutory directors do not have the right to remuneration for participation on committees.

Variable compensation

Profit Sharing. Variable annual payment (PR) based on the Company's earnings and defined by indicators and objective, measurable targets derived from the strategic plan, and the annual budget approved by the Executive Board. While assuring market competitiveness, the main aim of the profit sharing is to acknowledge an executive's contribution to the Company's performance and earnings. Item 13.1 (d) below, describes in detail the methodology for calculation used to determine the value of the compensation of the Non-Executive Board, pursuant to what is stated below.

Post-employment benefits

Non-Statutory Directors may have medical healthcare, hospital and dental care paid by the Company for up to twelve (12) months after their termination, in order to allow them to look for alternatives outside the corporative plan.

Benefits Resulting from the Termination of Holding a Position

Non-Statutory Directors receive customized service of orientation for outplacement to be performed by the specialist company appointed by Vale.

Compensation based on shares

Long-Term Incentive Plan (ILP)

Long-term variable payment based on the Company's expected performance in the future, with the aim of

Table of Contents

retaining and engaging the executives and aligning them with the future vision of the Company. The program was introduced in 2007, the first payment having been made in January 2010. For further details, please see item 13.4 of the Reference Form.

Matching

Like the ILP, Matching is a variable, long-term form of compensation based on the Company's expected performance in the future. The main aim of this scheme is to encourage an owner's vision, while also helping to retain executives and reinforce a sustained performance culture. For further details, see item 13.4 of the Reference Form.

Non-Statutory Committees

The Company also has two non-statutory committees: the Risk Committee and the Communication Committee. All the seats on the non-statutory committees are held by the Company's statutory and non-statutory directors, who do not receive any extra compensation for this function.

(ii) Proportion of each element to make up the total compensation package

The approximate proportions of each element in the total compensation for 2012 were as shown in the table below:

Compensation Composition	Executive Board	Fiscal Board	Statutory Board	Non-Statutory Board	Advisory Committees
Fixed Monthly Compensation					
<i>Wage or Pro-Labore</i>	100.00%	100.00%	30.38%	36.00%	
<i>Direct or Indirect Benefits</i>			13.04%	10.00%	
<i>Advisory Committees</i>					100.00%
<i>Others</i>					
Variable Compensation					
<i>Bonus</i>			34.95%	41.00%	
<i>Profit Sharing</i>					
<i>Participation in Meetings</i>					
<i>Commissions</i>					
<i>Others</i>					
Benefits Post Labor					
Resignation					
Compensation Based on Shares					
<i>Long-term incentive</i>			12.04%	7.00%	
<i>Matching</i>			9.60%	6.00%	
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

(iii) Methodology for the calculation and readjustment of each compensation element

Executive Board

The fixed compensation of the members of the Executive Board is represented by the fixed monthly payments (fees). For deputy members the amount established is 50% of the value received by the regular members of the Executive Board. Values are annually defined according to the market practice, checked through referential researches made by specialized companies, where the effect of the compensation for similar companies can be observed. There is no variable compensation for the members of the Executive Board.

Table of Contents

Fiscal Board

The fixed compensation of the members of the Fiscal Board is represented by the fixed monthly payments (fees), having as reference the value of 10% of the compensation that, in average, is granted to the Statutory Directors, not computing the benefits, representation monies, and profits participation. The members of the Fiscal Board also have the right to a refund for transport and lodging expenses that are necessary in performing their duties. There is no variable compensation for the members of the Fiscal Board.

Advisory Committees

The variable compensation of the members of the Advisory Committees of the Executive Board (Strategic Committee, Financial Committee, Executive Performance Committee, Controlling Committee, and Governance and Sustainability Committee) is represented by the payment of a certain value for the participation in meetings equal to the monthly value granted to the deputy members of the Executive Board. There is no additional compensation for the members of the Committees that are managers of Vale. There is also no fixed compensation for the members of the Advisory Committees or any other type of variable compensation.

Executive (Statutory) Directors

The fixed compensation of the Statutory Directors is represented by the fixed monthly payment, defined according to the market practice, checked through referential researches made by specialized companies where the effect of the compensation for similar companies can be observed, and annually readjusted by the National Broad Consumer Price Index (IPCA). Direct and indirect benefits (medical healthcare, hospital care, dental care, car with driver, private pension plan, and life insurance) to which they have the right, are calculated according to the market practice checked through referential research made by specialized companies where the effect of the concession of benefits for the participating companies of similar size can be observed. The bonus of the Statutory Directors is calculated based on the earnings of the Company, and may vary between 0% and 150% of the annual fixed payment; this depends on the goals set forth for each fiscal year.

The methodology for the calculation of the compensation based on shares of the Statutory Directors takes into account a percentage of the bonus of 75% for the Executive Directors and 125% for the President Director, of the value actually paid to this title, and transformed, as reference, into a number of common shares issued by Vale (virtual shares), and considered the average quotation of the common shares issued by the Company during the last 60 trading days of the last fiscal year. If the executive member remains in the Company, by the end of three years the number of virtual shares is transformed into a monetary value by the average quotation of the common shares issued by the Company of the last 60 trading days of the third year. The program also considers the performance of the Company regarding a group of similar companies (peer group). If Vale is first in this ranking, the value settled is increased in 50%. This is a decreasing percentage, so in the 5th position the value remains unchanged, and as of the 15th position, there is no payment.

Prior to the Long Term Incentive Plan (ILP), the Company kept a program that was specific for the Statutory Board and its percentage of allocation was 36% of the bonus, with payment after a period of 13 months. This program was replaced by the current ILP, and its last payment was made on January, 2009.

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The methodology for the calculation of the Matching determines that the executive member may allocate 30% or 50% of his short-term variable payment (bonus) to the purchase of class A preferred shares issued by Vale, through a pre-defined financial institution, under market conditions and without any benefit offered by Vale, on the days set forth in the plan. The bonus percentage that can be allocated by each executive member for participating in the Matching Plan is defined as of the valuation of his performance and potential. This shall be granted to those executive members who acquire shares as per the terms and conditions set forth in the Matching Plan and who three years after the acquisition, still remain linked to Vale and have kept the ownership of all the shares acquired. At the end of the three years period, the administrators shall end the cycle, and shall give a calculation of effective compliance of the conditions set forth in the manual of the above referred plan. If the terms of the plan have been adhered to, the Company shall pay the executive member a liquid value, as a prize, equal to the amount he bought in shares of the program. After the payment of the incentive, the executive members can freely negotiate the preferred shares issued by Vale to be acquired in order to become eligible for the Matching Plan and in agreement with the law in force.

Table of Contents

Non-statutory Board

The fixed compensation for the Non-statutory Directors is represented by a fixed monthly payment, with a labor contract. Every year, the Department of Human Resources and the Governance of Vale hire specialized companies to perform analysis of compensations; the analysis is made pursuant to the complexity of each position compared in the market. The comparison is made with national and multinational companies of several sectors, and the equalization of the comparison is through a scoring system. This system of valuation is known as Hay System, a system of points created by The Hay Group that evaluates the weight of the positions based on their complexity, allowing their global ranking. This system is the most used worldwide for this purpose. There is no predetermined index or periodicity for the readjustment of the fixed compensation and when there are readjustments, they are based on the market evolution and the merit of the executive member.

Direct and indirect benefits (medical healthcare, hospital care, dental care, private pension plan, and life insurance) to which they have right, are calculated according to the market practice checked through referential research made by specialized companies where the effect of the concession of benefits for similar companies can be observed. The component of the bonus of the Non-statutory Directors is calculated based on the earnings of the Company, and it ranges from 0, in the event the performance of the Company does not reach the goals set forth for each fiscal year, to 18 fixed monthly compensations for level 5 directors, and 15 fixed monthly compensations for level 4 directors. The readjustment of the variable compensation is aligned with the readjustment of wages, because the base of the variable compensation is a multiplier of the base wage.

The methodology for the calculation of the compensation based on shares of the Non-statutory Directors takes into account a percentage of the bonus of 75% for level 5 directors and 50% for level 4 directors of the value actually paid to this title. This amount is transformed, as reference, into a number of common shares issued by Vale (virtual shares), and considered the average quotation of the common shares issued by the Company during the last 60 trading days of the last fiscal year. If the executive member remains in the Company, by the end of three years the number of virtual shares is transformed into a monetary value by the average quotation of the common shares issued by the Company of the last 60 trading days of the third year. The program also considers the performance of the Company regarding a group of similar companies (peer group). If Vale is first in this ranking, the value settled is increased in 50%. This is a decreasing percentage, so in the 5th position the value remains unchanged, and as of the 15th position, there is no payment.

The methodology for the calculation of the Matching determines that the executive member may allocate 30% or 50% of his short-term variable payment (bonus) to the purchase of class A preferred shares issued by Vale, through a pre-defined financial institution, under market conditions and without any benefit offered by Vale, on the days set forth in the plan. The bonus percentage that can be allocated by each executive member for participating in the Matching Plan is defined as of the valuation of his performance and potential. This shall be granted to those executive members who acquire shares as per the terms and conditions set forth in the Matching Plan and who three years after the acquisition, still remain linked to Vale and have kept the ownership of all the shares acquired. At the end of the three years period, the administrators shall end the cycle, and shall give a calculation of effective compliance of the conditions set forth in the manual of the above referred plan. If the terms of the plan have been adhered to, the Company shall pay the executive member a liquid value, as a prize, equal to the amount he bought in shares of the program. After the payment of the incentive, the executive members can freely negotiate the preferred shares issued by Vale to be acquired in order to become eligible for the Matching Plan and in agreement with the law in force.

(iv) Reasons that justify the composition of the compensation

The reasons for the composition of the compensation are an incentive to improve the management and the permanence of the executive members of the Company, fixing earnings based on commitment to long-term results and short-term performance. Vale adopts a composition model of the compensation that concentrates a significant payment of the total compensation in the variable components (both of short- and long-term), being

a part of the policy of risk and earnings sharing with the main executive members of the Company.

Table of Contents

c. Main performance indicators that are taken into consideration when determining each element of the compensation package

All the definitions concerning the compensation are sustained by market research, supported by one or more specialized consultancies. Regarding Statutory Directors, these definitions are also assessed by the Executive Development Committee and approved by the Executive Board.

The main performance indicators are the Company's performance in comparison with its main competitors (top mining companies), its cash flow return on gross investments (CFROGI), as well as general productivity, safety, and environmental indicators.

The performance indicators regarding the long-term incentive plans (ILP and Matching) are: the value of the Company's shares in the market and its position in relation to a group of twenty companies of similar size (peer group).

d. How the compensation package is structured to reflect the development of the performance indicators

The executives' performance targets, which are used to structure the payment of their profit share (bonus), derive from the strategic plan and the budget, both approved by the Executive Board, which are reviewed each year to sustain the targets and expected results for the Company.

Further, the long-term incentive payments (ILP and Matching scheme) are pegged to some of the Company's performance indicators: the price of its shares on the market and its position relative to its peer group (a group of twenty companies of a similar size).

e. How the compensation policy is aligned with the Company's short-, medium- and long-term interests

As already stressed, the main factor for compensation is the Company's performance and growth in the short, medium, and long term, in line with its strategic plan, while also assuring shareholder value. As such, the long-term incentives are structured with a three-year elimination period, and mirror changes in the Company's performance indicators.

f. Existence of compensation supported by subsidiaries, and direct or indirect affiliates or holding companies

One of the Company's executive directors is also the President and Chief Executive Officer of Vale Canada Limited, a Vale subsidiary. As such, part of this executive's fixed compensation and benefits, corresponding to 60% and 23% of total compensation paid by Vale Canada Limited.

g. Existence of any compensation or benefits connected to the occurrence of a given corporate event, such as the sale of the Company's controlling interest

There is no compensation or benefit for the members of the Fiscal or Executive Boards, Statutory or Non-Statutory Committees, or the Executive or Non-Executive Board that is in any way connected to the occurrence of any corporate event.

13.2 Total Compensation of the executive board, statutory board, and fiscal board**Total Compensation Estimates for the Current Fiscal Year to be Ended on December 31, 2013 Annual Amounts**

	Executive Board	Statutory Board	Fiscal Board	Total
Number of members	21.00	9.00	3.00	33.00
Annual fixed compensation (in R\$)				
Salaries or pro-labore fees	R\$ 4,419,600	R\$ 22,027,472.00	R\$ 1,584,960.00	R\$ 28,032,032.00
Direct and indirect benefits		R\$ 8,984,112.00		R\$ 8,984,112.00
Compensation for participation in Committees				
Other	R\$ 1,104,900.00	R\$ 5,120,610.00	R\$ 396,240.00	R\$ 6,621,750.00
Description of other fixed compensation	Vale's Portion of Social Security [INSS]	Vale's Portion of Social Security [INSS]	Vale's Portion of Social Security [INSS]	
Variable Compensation (in R\$)				
Bonus		R\$ 18,413,629.00		R\$ 18,413,628.60
Profit share				

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Table of Contents

Total Compensation Estimates for the Current Fiscal Year to be Ended on December 31, 2013 Annual Amounts

	Executive Board	Statutory Board	Fiscal Board	Total
Compensation for participation in meetings				
Commissions				
Other		R\$ 8,772,791.00		R\$ 8,772,791.00
Description of other variable compensation		Vale's Portion of Social Security [INSS]		
Post-employment benefits				
Employment termination benefits		R\$ 27,046,231.00		R\$ 27,046,231.00
Stock-based compensation		R\$ 2,625,455.00		R\$ 2,625,455.00
Observation	The field Number of members includes the regular members (11) and deputy members (10) of the Executive Board.	1. The field Stock-based compensation includes the amounts paid in the ILP program and the estimated amounts of the Matching. 2. The amount presented in the field Bonus refers to the effective value paid in the 2013 fiscal year relative to the goals of the 2012 fiscal year. Two of Vale's Executive Directors started their term during the 2012 fiscal year and, thus, the amount paid as bonus, exclusively to these executives was calculated pro rata temporis, following the rules of the plan. Regarding the other directors who worked during the entire 2012 fiscal year, the bonus was paid in full.	The field Number of members includes the regular members (4) of the Fiscal Board	
Total amount of compensation	R\$ 5,524,500.00	R\$ 92,990,300.00	R\$ 1,981,200.00	R\$ 100,496,000.00

Total Compensation for the Fiscal Year Ended on December 31, 2012 Annual Amounts

Executive Board Statutory Board Fiscal Board Total

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Number of members	21.00	8.00	4.00	33.00
Annual fixed compensation (in R\$)				
Salaries or pro-labore fees	3,865,666.33	18,316,233.77	963,240.38	23,145,140.49
Direct and indirect benefits		7,859,706.16		7,859,706.16
Compensation for participation in Committees				
Other	966,416.58	4,077,327.49	240,810.10	5,284,554.17
Description of other fixed compensation	Vale s Portion of Social Security [INSS]	Vale s Portion of Social Security [INSS]	Vale s Portion of Social Security [INSS]	
Variable Compensation (in R\$)				

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Table of Contents

Total Compensation for the Fiscal Year Ended on December 31, 2012 Annual Amounts

	Executive Board	Statutory Board	Fiscal Board	Total
Bonus		21,069,159.02		21,069,159.02
Profit share				
Compensation for participation in meetings				
Commissions				
Other		12,144,530.35		12,144,530.35
Description of other variable compensation		Vale's Portion of Social Security [INSS]		
Post-employment benefits				
Employment termination benefits		28,267,686.85		28,267,686.85
Stock-based compensation		13,043,485.97		13,043,485.97
Observation	1 The number of members corresponds to the average over the year of the cited administrative entity as determined monthly. in accordance with Circular Letter CVM/SEP 001/13,	1 The number of members corresponds to the average over the year of the cited administrative entity as determined monthly. in accordance with Circular Letter CVM/SEP 001/13,	1 The number of members corresponds to the average over the year of the cited administrative entity as determined monthly. in accordance with Circular Letter CVM/SEP 001/13,	
	2 - The field Number of members includes the regular members (11) and deputy members (10) of the Executive Board,	2 The amounts shown in the field Stock-based compensation includes the amounts paid in the ILP and the Matching programs.	2 - The field Number of members includes the regular members (4) of the Fiscal Board,	
		3. The amount presented in the field Bonus refers to the effective value paid in the 2012 fiscal year relative to the goals of the 2011 fiscal year.		
Total amount of compensation	4,832,082.92	104,778,129.60	1,204,050.48	110,814,263.00

Total Compensation for the Fiscal Year Ended on December 31, 2011 Annual Amounts

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	Executive Board	Statutory Board	Fiscal Board	Total
Number of members	21.00	7.75	4.00	32.75
Annual fixed compensation				
Salaries or pro-labore fees	R\$ 3,929,627.00	R\$ 16,970,226.00	R\$ 921,600.00	R\$ 21,821,453.00
Direct and indirect benefits		R\$ 6,153,124.00		R\$ 6,153,124.00
Compensation for participation in Committees				
Other	R\$ 785,925.00	R\$ 3,698,510.00	R\$ 184,320.00	R\$ 4,668,755.00
Description of other fixed compensation	Vale's Portion of Social Security [INSS]	Vale's Portion of Social Security [INSS]	Vale's Portion of Social Security [INSS]	
Variable Compensation				
Bonus		R\$ 24,703,613.00		R\$ 24,703,613.00
Profit share				
Compensation for participation in meetings				
Commissions				

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Table of Contents

Other		R\$ 28,224,426.00		R\$ 28,224,426.00
Description of other variable compensation		Vale's Portion of Social Security [INSS]		
Post-employment benefits				
Employment termination benefits		R\$ 98,741,007.00		R\$ 98,741,007.00
Stock-based compensation		R\$ 17,677,508.00		R\$ 17,677,508.00
Observation	1	The number of members corresponds to the average over the year of the cited administrative entity as determined monthly, in accordance with Circular Letter CVM/SEP 001/13.	1	The number of members corresponds to the average over the year of the cited administrative entity as determined monthly, in accordance with Circular Letter CVM/SEP 001/13.
	2	The field Number of members includes the regular members (11) and deputy members (10) of the Executive Board.	2	The payment regarding Employment termination benefits was made to ex-Executive Directors who left the Company during the fiscal year ending on December 31, 2011
			3	The amounts shown in the field Stock-based compensation includes the amounts paid in the ILP and the Matching programs described in items 13.1 and 13.4.
			4	The amount presented in the field Bonus refers to the effective value paid in the 2013 fiscal year relative to the goals

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of the 2012 fiscal
year.

Total amount of compensation	R\$ 4,715,552.00	R\$ 196,168,414.00	R\$ 1,105,920.00	R\$ 201,989,886.00
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Total Compensation for the Fiscal Year Ended on December 31, 2010 Annual Amounts

	Executive Board	Statutory Board	Fiscal Board	Total
Number of members	21.00	7.00	4.00	32.00
Annual fixed compensation (in R\$)				
Salaries or pro-labore fees	R\$ 1,790,070.00	R\$ 15,203,831.00	R\$ 913,600.00	R\$ 17,907,501.00
Direct and indirect benefits	0.00	R\$ 5,687,041.00	0.00	R\$ 5,687,041.00
Compensation for participation in Committees	0.00	0.00	0.00	0.00
Other	R\$ 358,014.00	R\$ 3,618,550.00	R\$ 182,720.00	R\$ 4,159,284.00
Description of other fixed compensation	Vale s Portion of Social Security [INSS]	Vale s Portion of Social Security [INSS]	Vale s Portion of Social Security [INSS]	

Variable Compensation (in R\$)

Table of Contents

Bonus	0.00	R\$ 20,902,658.00	0.00	R\$ 20,902,658.00
Profit share	0.00	0.00	0.00	0.00
Compensation for participation in meetings	0.00	0.00	0.00	0.00
Commissions	0.00	0.00	0.00	0.00
Other	0.00	R\$ 10,228,455.00	0.00	R\$ 10,228,455.00
Description of other variable compensation		Vale's Portion of Social Security [INSS]		
Post-employment benefits	0.00	0.00	0.00	0.00
Employment termination benefits	0.00	R\$ 3,584,251.00	0.00	R\$ 3,584,251.00
Stock-based compensation	0.00	R\$ 30,239,619.00	0.00	R\$ 30,239,619.00
Observation	1 The number of members corresponds to the average over the year of the cited administrative entity as determined monthly, in accordance with Circular Letter CVM/SEP 001/13.	1 The number of members corresponds to the average over the year of the cited administrative entity as determined monthly, in accordance with Circular Letter CVM/SEP 001/13.	1 The number of members corresponds to the average over the year of the cited administrative entity as determined monthly, in accordance with Circular Letter CVM/SEP 001/13.	
	2 - The field Number of members includes the regular members (11) and deputy members (10) of the Executive Board.	2 The payment regarding Employment termination benefits was made to an ex-Executive Director who left the Company during the fiscal year ended in 2010.	2 - The field Number of members includes the regular members (4) of the Fiscal Board.	
		3 The amounts shown in the field Stock-based compensation includes the amounts paid in the ILP and the Matching programs described in items 13.1 and 13.4.		
		4. The amount presented in the field Bonus refers to the effective		

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value paid in the
2013 fiscal year
relative to the goals
of the 2012 fiscal
year.

Amount of compensation	R\$ 2,148,084.00	R\$ 89,464,405.00	R\$ 1,096,320.00	R\$ 92,708,809.00
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Table of Contents**13.3 Variable Compensation of the executive board, statutory board, and fiscal board****Estimates for the fiscal year to be ended on December 31, 2013**

	Executive Board	Statutory Board	Fiscal Board	Total
Number of members			9.00	9.00
Bonus (in R\$)				
Minimum amount estimated by compensation plan				
Maximum amount estimated by compensation plan	R\$	33,041,208.00	R\$	33,041,208.00
Amount estimated by the compensation plan if pre-established goals are met	R\$	22,027,472.00	R\$	22,027,472.00
Profit share (in R\$)				
Minimum amount estimated by compensation plan				
Maximum amount estimated by compensation plan				
Amount estimated by the compensation plan if pre-established goals are met				

Fiscal year ended on December 31, 2012

	Executive Board	Statutory Board	Fiscal Board	Total
Number of members (1)			8.00	8.00
Bonus (in R\$)				
Minimum amount estimated by compensation plan				
Maximum amount estimated by compensation plan	R\$	27,474,351.00(2)	R\$	27,474,351.00
Amount estimated by the compensation plan if pre-established goals are met	R\$	18,316,234.00(3)	R\$	18,316,234.00
Amount effectively paid at the close of the fiscal year	R\$	21,069,159.02(4)	R\$	21,069,159.02
Profit share (in R\$)				
Minimum amount estimated by compensation plan				
Maximum amount estimated by compensation plan				
Amount estimated by the compensation plan if pre-established goals are met				
Amount effectively paid at the close of the fiscal year				

Notes:

- (1) Corresponds to the number of executive officers and board members, as applicable, to whom variable compensation was paid at the close of the fiscal year, in accordance with the provision of Circular Letter CVM/SEP 01/2013.
- (2) Amount represents 150% of Fixed Annual Compensation paid to the Statutory Board.
- (3) Amount represents 100% of Fixed Annual Compensation paid to the Statutory Board.
- (4) The amount presented in the field `Bonus` refers to the effective value paid in the 2012 fiscal year relative to the goals of the 2011 fiscal year.

Table of Contents**Fiscal year ended on December 31, 2011**

	Executive Board	Statutory Board	Fiscal Board	Total
Number of members (1)		10.00		10.00
Bonus (in R\$)				
Minimum amount estimated by compensation plan		0		0
Maximum amount estimated by compensation plan				
Amount estimated by the compensation plan if pre-established goals are met		34,464,477.00(2)		34,464,477.00
Amount actually acknowledged in the formal results		21,675,771.00(3)		21,675,771.00
		24,703,613.00(4)		24,703,613.00
Profit share (in R\$)				
Minimum amount estimated by compensation plan				
Maximum amount estimated by compensation plan				
Amount estimated by the compensation plan if pre-established goals are met				
Amount actually acknowledged in the formal results				

Notes:

- (1) Corresponds to the number of executive officers and board members, as applicable, to whom variable compensation was paid at the close of the fiscal year, in accordance with the provision of Circular Letter CVM/SEP 01/2013.
- (2) Amount represents 150% of Fixed Annual Compensation paid to the Statutory Board.
- (3) - Amount represents 100% of Fixed Annual Compensation paid to the Statutory Board.
- (4) The amount presented in the field Bonus refers to the effective value paid in the 2011 fiscal year relative to the goals of the 2010 fiscal year.

Fiscal year ended on December 31, 2010

	Executive Board	Statutory Board	Fiscal Board	Total
Number of members (1)		7.00		7.00
Bonus (in R\$)				
Minimum amount estimated by compensation plan				
Maximum amount estimated by compensation plan				
Amount estimated by the compensation plan if pre-established goals are met		26,615,414.00(2)		26,615,414.00
Amount actually acknowledged in the formal results		17,743,609.00(3)		17,743,609.00
		20,902,658.00(4)		20,902,658.00
Profit share (in R\$)				

Minimum amount estimated by
compensation plan

Maximum amount estimated by
compensation plan

Amount estimated by the compensation
plan if pre-established goals are met

Amount actually acknowledged in the
formal results

Notes:

- (1) Corresponds to the number of executive officers and board members, as applicable, to whom variable compensation was paid at the close of the fiscal year, in accordance with the provision of Circular Letter CVM/SEP 01/2013.
- (2) Amount represents 150% of Fixed Annual Compensation paid to the Statutory Board.
- (3) - Amount represents 100% of Fixed Annual Compensation paid to the Statutory Board.
- (4) The amount presented in the field `Bonus` refers to the effective value paid in the 2010 fiscal year relative to the goals of the 2009 fiscal year.

Table of Contents

13.4 With respect to the stock-based compensation plan for the Executive Board and the Statutory Board, which was in force in the last fiscal year and which is estimated for the current fiscal year:

The Company has two stock-based compensation plans for the Statutory Board, which do not extend to the Executive Board. Neither plan grants permission for Company stock purchasing option, but only the payment of a bonus as per the market quotation for the Company stock.

a. General Terms and Conditions

• **Long-Term Incentive Plan (ILP):** Long-term variable payment, created in 2007, based on the Company's expected performance in the future. The sum is defined as 75% of the bonus (profit share) for Executive Directors and 125% of the bonus (profit share) for the calculated on the value effectively paid for said bonus, and transformed, as a reference, into a number of ordinary stock issued by Vale (virtual shares), considering the average price for the Company's ordinary stock over the last sixty trading days of the previous year. Should the executive remain with the Company, at the end of three years, the number of virtual shares is transformed into a pecuniary value according to the average price of the ordinary stock issued by the Company over the last sixty trading days in the third year. The program also compares the Company's performance against twenty other companies of a similar size (peer group); should Vale come out first in this ranking, the amount calculated is increased by 50%. This percentage is reduced on a sliding scale, such that from first to fifth place, the percentage remains the same, and as of 15th place in the ranking, no payment is made.

• **Matching:** Like the ILP, Matching is a variable, long-term form of compensation, created in 2008, based on the Company's expected performance in the future. To be eligible to take part in the Matching scheme, an executive may allocate up to 50% of his/her bonus (short-term variable compensation) for the purchase of Class A preferred stock issued by Vale, through the mediation of a pre-defined financial institution, under market conditions, on the days set in the scheme, without any benefit being offered by Vale. The percentage bonus that may be allocated per executive for participating in the Matching scheme is based on an assessment of their performance and potential. Those executives who acquire shares under the terms and conditions of the Matching scheme on the stipulated dates and who are still in the employment of Vale three years after they were acquired and who have kept the ownership of all the shares purchased will be eligible for a cash prize. At the end of the three-year period, when the cycle reaches its conclusion, the Managers check that the terms of the scheme, as set forth in the manual, have been followed. Assuming that the terms of the plan have been observed, the Company will pay the executive a net value, as a prize, worth the amount they had purchased in shares as part of the scheme. After the incentive has been paid, the executives are free to sell the preferred stock issued by Vale that they had acquired at the beginning of the Matching scheme, in compliance with existing legislation. The main aim of this scheme is to encourage an owner's vision, while also helping to retain executives and reinforce a sustained performance culture.

b. Major Plan Objectives

The major objectives of both the ILP and the Matching Plan are retention of the Company's major executives, keep them engaged to the Company and encourage the stockholder view, so that they become committed to mid and long terms results.

c. How the plans contribute for the achievement of these objectives

Both the ILP and the Matching Plan promote the alignment of the stockholders` and the statutory board members` interests, as they ensure gains for the executives only as long as there are gains for the Company as well.

d. Where the plans fit into the Company`s compensation policy

Both the ILP and the Matching Plan fit into Vale`s compensation policy once they constantly foster a competitiveness level that complies with the Company business and the competitive market context. Both the ILP and the Matching Plan have been designed upon the support provided by specialized consulting services and upon the consideration of domestic and international market trends and moves.

Table of Contents

e. How the plans promote the alignment between management and the Company interests at short, mid and long term

The design of both the ILP and the Matching Plans lies upon the executive's annual performance and its baseline is the short term variable compensation for assignment of incentives. The Plans also comprise the Company's performance rate upon company stocks fluctuated value in the past three years and the Company's performance relative to other companies of similar size within the same industry and the same reference period. Thus, the plans align the short-, medium- and long-term interests of both the managers and the Company.

f. Maximum number of comprised stocks

Not applicable. No stock purchasing option is granted within the scope of either the ILP or the Matching Plan. The number of virtual ordinary stocks granted as reference within the scope of ILP plan varies according to each executive's short term variable compensation and the average quotation for Vale's issued stocks within a specific number of stock market floor sessions prior to such grant. Within the scope of the Matching Plan, an executive is given the option to allocate 30 or 50% of his/her bonus to purchase the Company's class A preferred stocks and so become eligible for the plan, taking into consideration the evaluation of his/her performance and potential.

g. Maximum number of options to be granted

Not applicable. No stock purchasing option is granted within the scope of either the ILP or the Matching Plan.

h. Stock purchasing conditions

Not applicable. No Company stock purchasing option is granted to executives within the scope of either the ILP or the Matching Plan. Once assessed, the amount owed to executives within the scope of the Plans is paid in cash.

i. Criteria for stock pricing or option reference period

Not applicable. As no stock purchasing option is granted within the scope of either Plan, it makes no sense setting criteria for stock pricing or option reference period.

With respect to the ILP Plan, the amount owed to executives is calculated as per the valuation of a given number of Vale's virtual ordinary stocks within the period of the past three years, and is based upon the stock average initial quotation of the last 60 stock market floor sessions prior to the incentive grant, and the stock average final quotation at the closing of the last 60 stock market floor sessions of the third year. This

figure is then multiplied by a Company performance factor in relation to a peer group comprising 20 similar-size global companies. Face to the Company ranking within the latter global companies group, the ILP Plan may have its amount expanded by up to 50% or it might be even zeroed.

However, for the Matching Plan, the net amount to be paid to executives as incentives is calculated upon the number of Company class A preferred stocks purchased by the executive in order to become eligible to the Plan.

j. Criteria for establishing the reference period

Not applicable. As mentioned above, no Company stock purchasing option is granted within the scope of either the ILP or the Matching Plan. Therefore, there is no reference period. However, both the ILP and the Matching Plan pre-establish that the payment of incentives be made after a three-year grace period.

k. Liquidation conditions

Both the ILP and the *Matching* Plan pre-establish that premiums be paid in cash.

l. Restrictions to stock transfer

With respect to the Matching Plan, the executive will lose his/her right to the premium if he/she transfers, within the three-year period, any Company preferred stock that is plan-bonded.

Not applicable to the ILP Plan, though, once this Plan's participants are not required to retain their stockholding position in the company nor are they granted any stocks within the scope of the Plan.

Table of Contents

m. Criteria and events that, upon occurrence, shall result in the plan suspension, change or extinction

With respect to the Matching Plan, any transference of Vale's issued preferred stocks that are plan-bonded before the three-year grace period or the executive's severance generate the extinction of any rights whatsoever that they would otherwise be entitled to within the scope of the Plan.

However, with respect to the ILP Plan, the executive's severance generates the extinction of any rights whatsoever that they would otherwise be entitled to within the scope of the Plan.

n. Effects generated by the Company's Board and Committee Manager's departure upon his/her rights as provided by the stock-based compensation plan

As the Plan works as a retention mechanism, if the Manager resigns, he/she shall lose all his/her rights to the long-term plans ILP and Matching. In case the Manager's contract is rescinded or not renewed by the Company, the participant shall receive the values he had purchased prior to the contract rescission or termination date.

13.5 Participation in stock, quotas, or other convertible securities held by executive officers and fiscal council members by board or committee

a. The number of stocks or quotas issued by the Company, held directly or indirectly, in Brazil or overseas, and other stock-convertible securities by its board of directors members, statutory directors, or fiscal council members, grouped by board or committee, on the closing day of the last accounting reference period:

Shares issued by VALE S.A.

Stockholders	Common	Preferred
12/31/2012		
Board of Directors	1,043	48,244
Executive Officers	29,300(*)	534,891(*)
Fiscal Council	0	0
Total	30,343	583,135

(*) Including 20,000 VALE shares and 111,414 VALE.P shares owned as *American Depositary Receipts* (ADRs), at the New York Stock Exchange.

b. The number of stocks or quotas and other securities convertible into shares or quotas issued by the direct or indirect controllers of the Company, held directly or indirectly, either in Brazil or overseas, by its board of directors members, statutory directors, or fiscal council members, grouped by board or committee, on the closing day of the last accounting reference period:

Shares issued by VALEPAR S.A.

Board of Directors	0	0
Fiscal Council	0	0

Shares issued by BNDES Participações S.A.

Board of Directors	0	0
Fiscal Council	0	0

Table of Contents**Shares Issued by LITEL PARTICIPAÇÕES S.A.**

Stockholders 12/31/2012	Common	Preferred
Board of Directors	0	0
Executive Officers	0	0
Fiscal Council	0	0
Total	0	0

Shares issued by BRADESPAR S.A.

Stockholders 12/31/2012	Common	Preferred
Board of Directors	400	0
Executive Officers	0	0
Fiscal Council	0	0
Total	400	0

Shares issued by MITSUI & CO., LTD

Stockholders 12/31/2012	Common	Preferred
Board of Directors	41,636	0
Executive Officers	0	0
Fiscal Council	0	0
Total	41,636	0

Shares issued by ELETRON S.A

Stockholders 12/31/2012	Common	Preferred
Board of Directors	0	0
Executive Officers	0	0
Fiscal Council	0	0
Total	0	0

Shares issued by OPPORTUNITY ANAFI PARTICIPAÇÕES S.A

Stockholders 12/31/2012	Common	Preferred
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Board of Directors	0	0
Executive Officers	0	0
Fiscal Council	0	0
Total	0	0

Table of Contents**Shares issued by BELAPART S.A.**

Stockholders			
12/31/2012		Common	Preferred
Board of Directors		0	0
Executive Officers		0	0
Fiscal Council		0	0
Total		0	0

Shares issued by VALETRON S.A.

Stockholders			
12/31/2012		Common	Preferred
Board of Directors		0	0
Executive Officers		0	0
Fiscal Council		0	0
Total		0	0

c. The number of stocks or quotas and other securities convertible into shares or quotas issued by the Company's subsidiaries, held directly or indirectly, either in Brazil or overseas, by its board of directors members, statutory directors, or fiscal council members, grouped by board or committee, on the closing day of the last accounting reference period:

Shares issued by FERROVIA CENTRO ATLÂNTICA S.A.

Stockholders			
12/31/2012		Common	Preferred
Board of Directors		0	0
Executive Officers		0	0
Fiscal Council		0	0
Total		0	0

Shares issued by FERROVIA NORTE SUL S.A.

Stockholders			
12/31/2012		Common	Preferred
Board of Directors		0	0
Executive Officers		0	0
Fiscal Council		0	0
Total		0	0

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Shares issued by LOG-IN LOGÍSTICA INTERMODAL S/A

Stockholders		Common	Preferred
12/31/2012			
Board of Directors		0	0
Executive Officers			0
Fiscal Council		0	0
Total			0

278

Table of Contents**Shares issued by MRS LOGÍSTICA S.A.**

Stockholders 12/31/2012	Common	Preferred
Board of Directors	0	0
Executive Officers	0	1
Fiscal Council	0	0
Total	0	1

Shares issued by PT VALE INDONESIA TBK

Stockholders 12/31/2012	Common	Preferred
Board of Directors	0	0
Executive Officers	0	0
Fiscal Council	0	0
Total	0	0

13.6 With respect to stock-based compensation, as acknowledged in the past three fiscal years and as estimated for the current fiscal year, for executive board and the statutory board.

The Matching Plan was established in 2008 and provides for a three-year grace period, so, the incentive within the scope of this Plan shall only be due by the Company three years after its application. Therefore, the value shown below for this program represents an estimation pursuant to the projection of increase of the shares price up to the date foreseen for the payment. The first benefit of the program was paid in 2011.

The information below that refers to the Long Term Incentive Plan (ILP), described in detail in 13.4 (i), does not include or grant stock purchasing option, because it is based on the quotations of the Company's common shares in order to define the value in kind to be paid as incentive to the executive directors; that is why most of the information appearing in the following tables does not apply.

Estimates for the fiscal year to be ended on December 31, 2013

	Executive Board	Statutory Board	Total
Number of members		9.00	9.00
With respect to each option grant			
Grant date		January and March 2010(1)	
Number of granted options			
Deadline for options to become redeemable		January and March 2013(2)	

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Deadline for redeeming options		
Grace period for stock transfer		
Pondered average price within accounting reference period for each of the following option groups:		
Outstanding at the beginning of the accounting reference period		
Not redeemed throughout accounting reference period		
Redeemed within accounting reference period		
Expired within accounting reference period		
Fair option price on grant date	2,625,455.00(3)	2,625,455.00(3)
Potential dilution in case all granted options were redeemed		

Notes:

(1) In January 2010 the ILP cycle began and in March 2010 the Matching cycle began.

(2) In January 2013 the ILP cycle ended and in March 2013 the Matching cycle will end.

(3) Paid values regarding the ILP Program (cycle ended in January, 2013) and values estimated for the future payment of the Matching Program, in March 2013

Table of Contents**Fiscal year ended on December 31, 2012**

	Executive Board	Statutory Board	Total
Number of members (1) [sic]		9.00	9.00
With respect to each option grant			
Grant date		January and April 2009(2)	
Number of granted options			
Deadline for options to become redeemable		January and April 2012(3)	
Deadline for redeeming options			
Grace period for stock transfer			
Pondered average price within accounting reference period for each of the following option groups:			
Outstanding at the beginning of the accounting reference period			
Not redeemed throughout accounting reference period			
Redeemed within accounting reference period			
Expired within accounting reference period			
Fair option price on grant date		R\$ 13,024,236.00(4)	R\$ 13,024,236.00(4)
Potential dilution in case all granted options were redeemed			

Notes:

(1) Corresponds to the number of executive officers and board members, as applicable, to whom remuneration was attributed based on shares as shown in the fiscal year statements, in accordance with Circular Letter CVM/SEP 01/2013.

(2) In January 2009 the ILP cycle began and in March 2009 the Matching cycle began.

(3) In January 2012 the ILP cycle ended and in March 2012 the Matching cycle ended.

(4) Paid values regarding the ILP and Matching Programs (cycle ended 2012).

Fiscal year ended on December 31, 2011

	Executive Board	Statutory Board	Total
Number of members (1) [sic]		7.75	7.75
With respect to each option grant			
Grant date		January and April 2008(2)	
Number of granted options			
Deadline for options to become redeemable		January and April 2011(3)	
Deadline for redeeming options			
Grace period for stock transfer			
Pondered average price within accounting reference period for each of the following option groups:			

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Outstanding at the beginning of the accounting reference period		
Not redeemed throughout accounting reference period		
Redeemed within accounting reference period		
Expired within accounting reference period		
Fair option price on grant date	R\$ 17,677,508.00(3)	R\$ 17,677,508.00(3)
Potential dilution in case all granted options were redeemed		

Notes:

(1) Corresponds to the number of executive officers and board members, as applicable, to whom remuneration was attributed based on shares as shown in the fiscal year statements, in accordance with Circular Letter CVM/SEP 01/2013.

(2) In January 2008 the ILP cycle began and in April 2008 the Matching cycle began.

Table of Contents

(3) In January 2011 the ILP cycle ended and in April 2011 the Matching cycle ended.

(4) Paid values regarding the ILP and Matching Programs (cycle ended 2011).

Fiscal year ended on December 31, 2010

	Executive Board	Statutory Board	Total
Number of members (1)		7.00	7.00
With respect to each option grant			
Grant date		January 2007	
Number of granted options			
Deadline for options to become redeemable		January 2010	
Deadline for redeeming options			
Grace period for stock transfer			
Pondered average price within accounting reference period for each of the following option groups			
Outstanding at the beginning of the accounting reference period			
Not redeemed throughout accounting reference period			
Redeemed within accounting reference period			
Expired within accounting reference period			
Fair option price on grant date		R\$ 30,239,619.00(2)	R\$ 30,239,619.00
Potential dilution in case all granted options were redeemed			

Note:

(1) Corresponds to the number of executive officers and board members, as applicable, to whom remuneration was attributed based on shares as shown in the fiscal year statements, in accordance with Circular Letter CVM/SEP 01/2013.

(2) Values paid regarding the ILP cycle ended in January 2010.

13.7 With respect to outstanding options for the Executive Board and the Statutory Board at the closing of the last accounting reference period

Not applicable, since the remuneration plans based on Company shares do not include the granting of options for the purchase of shares. See items 13.4 and 13.6.

13.8 With respect to redeemed and delivered options for the Executive Board and the Statutory Board, in the past three accounting reference periods

Not applicable, since the remuneration plans based on Company shares do not include the granting of options for the purchase of shares. See items 13.4 and 13.6.

13.9 Summary of relevant information aiming at a broader understanding of data presented under items 13.6 through 13.8 above, as well as an explanation of the pricing method used for stock and option values

Not applicable. See items 13.4 and 13.6.

13.10 Private Pension Funds in force granted to members of the executive board and the statutory board

Pursuant to contract provisions, the Company pays for both the employer's and the employee's share, up to 9% of the fixed compensation, to Valia - Fundação Vale do Rio Doce de Seguridade Social (Vale do Rio Doce Social Security Foundation), or to any other private pension fund chosen by the Statutory Board member.

Table of Contents

At Valia, the minimum required age for a retirement plan is 45 years of age, after having contributed for the given plan for a minimum grace period of 5 years.

Valia Fundação Vale do Rio Doce de Seguridade Social

	Executive Board	Statutory Board	Total
Number of members (1)		[7] members	
Plan name	Benefits Plan	Vale Mais (Plano de Benefício Vale Mais)	
Number of managers that are eligible for retirement benefits		[6, of which (i) 2 with Normal Retirement Income; and (ii) 3 with Early Retirement Income; and (iii) 1 with Differed Benefit Income through Retirement.]	
		- be at least 45 years old;	
Eligibility for early retirement		- have at least 5 years of uninterrupted participation in VALIA, counting from the most recent date of entering the Vale Mais Plan (except for participants migrating from the Defined Benefit Plan (Benefits Plan now closed) to the Vale Mais Plan;	
		- have rescinded the labor contract with the employer or have lost the position of administrator.	
Updated value of accumulated contributions to social security and pension plan up until the closing of the last accounting reference period, minus amounts paid by managers		R\$ 7,916,952.30(2)	
Total accumulated amount of contributions paid throughout the last accounting reference period, minus amounts paid by managers		R\$ 1,282,571.37(3)	

Table of Contents

Eligibility for advanced redemption and conditions	<p>- The active participant who, on the date of rescission of his/her labor contract with the employer or on the date of loss of the position of administrator, does not opt to become an independent contributor or associate, nor opts for the institution of portability and is not enjoying benefits from the Vale Mais Plan, is eligible to receive the redemption.</p> <p>The amount of the redemption shall be equal to: 100% of the participant's account + 1% of the employer's account per month of normal, ordinary contribution made by the participant to the Vale MaisPlan up to a maximum of 80% of this account.</p>
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(1) Corresponds to the number of executive officers and board members, as applicable, enrolled in the benefits plan, in accordance with Circular Letter CVM/SEP 01/2013.

(2) Amount corresponding to the sum of the Accounts of the Employer belonging to the participants on 12/31/2012.

(3) Amount corresponding to the sum of the ordinary contributions made by the employer in the name of each one of the participants during the year of 2012.

	Executive Board	Statutory Board	Total
Number of members (1)		1 member	
Plan name		Benefits Plan Valiaprev	
Number of managers that are eligible for retirement benefits			
Eligibility for early retirement		- be at least 45 years old;	

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- have at least 5 years
of uninterrupted
participation in
VALIA, counting
from the most recent
date of entering the
Vallaprev Plan (

- have rescinded the
labor contract with the
employer or

Table of Contents

	have lost the position of administrator.
Updated value of accumulated contributions to social security and pension plan up until the closing of the last accounting reference period, minus amounts paid by managers	R\$ 153,930.02(2)
Total accumulated amount of contributions paid throughout the last accounting reference period, minus amounts paid by managers	R\$ 143,151.63(3)
	- The active participant who, on the date of rescission of his/her labor contract with the employer or on the date of loss of the position of administrator, does not opt to become an independent contributor or associate, nor opts for the institution of portability and is not enjoying benefits from the Valiaprev Plan, is eligible to receive the redemption.
Eligibility for advanced redemption and conditions	
	The amount of the redemption shall be equal to: 100% of the participant's account + 1% of the employer's account per month of normal, ordinary contribution made by the participant to the Valiaprev Plan up to a maximum of 80% of this account.

(1) Corresponds to the number of executive officers and board members, as applicable, enrolled in the benefits plan, in accordance with Circular Letter CVM/SEP 01/2013.

(2) Amount corresponding to the sum of the Accounts of the Employer belonging to the participants on 12/31/2012.

(3) Amount corresponding to the sum of the ordinary contributions made by the employer in the name of each one of the participants during the year of 2012.

13.11 Maximum, minimum, and average individual compensation of the executive board, statutory board, and the fiscal board

Justification for not filling out this table.

Information not disclosed due to injunctive relief granted in the case of ordinary proceedings No. 2010.51.01.002888-5 by the Honorable Judge of the 5th Circuit Court of Federal Justice of Rio de Janeiro to IBEF/RJ, to which Vale and the company executives are linked. The concerning preliminary injunction continuous in force due to the decision of the High Court of Justice in MC 17350 RJ.

Table of Contents**13.12 Compensation or indemnity mechanisms applicable to managers in the occurrence of dismissal or retirement**

The contracts signed by members of the Statutory Board have a provision for indemnity for contract rescission or non-renewal once such events are generated by the Company. In the latter case, the following amounts and conditions are provided for: (i) 2 (two) fixed annual salaries for the Managing President; or (ii) 1 (one) fixed annual salary for the Statutory Directors. Indemnity payment is made in four quarterly payments and conditioned to a non-compete agreement to be in force for the following 12 months.

The contract also provides for a Life Insurance Policy, whose insured capital is worth twice as much as the fixed annual compensation, for the purposes of death or total permanent disability (TPD).

No other type of contract agreement is drawn with members of the Executive Board or the Fiscal Board. The same applies to any other types of contract agreements, life insurance policies or any other instruments that might underlie compensation or indemnity mechanisms in case an executive is dismissed or retires.

1. Percentage of total compensation held by managers and members of the fiscal board that are somehow connected to controllers.

Board or Committee	Fiscal year ended on December 31, 2012
Executive Board	74.00%
Statutory Board	0.00%
Fiscal Board	15.00%

Board or Committee	Fiscal year ended on December 31, 2011
Executive Board	74.00%
Statutory Board	0.00%
Fiscal Board	15.00%

Board or Committee	Fiscal year ended on December 31, 2010
Executive Board	90.00%
Statutory Board	0%
Fiscal Board	14.00%

13.14 - Compensation paid to managers and members of the fiscal board, grouped by board, received for any purpose other than the function they perform.

No payments in the last three accounting reference periods of any other type rather than for the function they perform were made to any member of the Executive Board, of the Statutory Board, or the Fiscal Board.

13.15 Compensation paid to managers and members of the fiscal board acknowledged in the results released by direct or indirect affiliates, subsidiaries or companies under common control.

FISCAL YEAR ENDED ON 12/31/2012

	EXECUTIVE BOARD	STATUTORY BOARD	FISCAL BOARD	TOTAL
DIRECT AND INDIRECT CONTROLLING ENTITIES	0	0	0	0
COMPANIES CONTROLLED BY THE COMPANY	0	R\$1,972,657.00(1) (Fixed annual compensation: R\$1,189,560.00/ Direct and indirect benefits: R\$783,097.00)	0 R\$	1,972,657.00
COMPANIES UNDER COMMON CONTROL	0	0	0	0

Table of Contents

Note:

(1) The above amount refers to compensation paid to an Executive Manager working at our controlled company Vale Canada.

FISCAL YEAR ENDED ON 12/31/2011

	EXECUTIVE BOARD	STATUTORY BOARD	FISCAL BOARD	TOTAL
DIRECT AND INDIRECT CONTROLLING ENTITIES	0	0	0	0
COMPANIES CONTROLLED BY THE COMPANY	0	R\$1,023,381.00(1) (Fixed annual compensation: R\$766,330.00/ Direct and indirect benefits: R\$257,051.00)	0	R\$ 1,023,381.00
COMPANIES UNDER COMMON CONTROL	0	0	0	0

Note:

(1) The above amount refers to compensation paid to an Executive Manager working at our controlled company Vale Canada.

FISCAL YEAR ENDED ON 12/31/2010

	EXECUTIVE BOARD	STATUTORY BOARD	FISCAL BOARD	TOTAL
DIRECT AND INDIRECT CONTROLLING ENTITIES	0	0	0	0
COMPANIES CONTROLLED BY THE COMPANY	0	R\$961,667.00(1) (Fixed annual compensation: R\$698,809.00 / Direct and indirect benefits: R\$262,858.00)	0	R\$ 961,677.00
COMPANIES UNDER COMMON CONTROL	0	0	0	0

Note:

(1) The above amount refers to compensation paid to an Executive Manager working at our controlled company Vale Canada.

13.16 Other relevant information

Proposal for global compensation

The proposal for global compensation of the managers for the fiscal year 2013 was submitted to the General Annual Meeting intended to fix as a global sum the amount of up to R\$ 101,000.00 (one hundred and one million reais), to be distributed by the Executive Board, taking into account the responsibilities of the administrators, the time devoted to their positions, the competence, the professional reputation, and the value of their services in the market.

The above amount comprises: (a) up to R\$ 6,004,560,00 (six million, four thousand five hundred and sixty reais) corresponding to the fixed compensation of the members of the Executive Board, and of the members of the Fiscal Board, under the terms of Act No. 6404/76, Art. 163; (b) up to R\$ 70,112,787.00 (seventy million, one hundred twelve thousand, seven hundred and eighty seven reais) corresponding to the fixed and variable compensation of the Executive Directors, which takes into account an Executive Board comprised by 9 Executive Directors. The individual and fixed compensation is compatible with the values paid to the executive members of similar companies, while the payment of the variable compensation, corresponding to the bonus and the long-term incentive, is linked to the fulfillment of predetermined goals, based on the performance of the Company. Thus, the payment of the variable

Table of Contents

compensation is equivalent to the partial or total fulfillment of the predetermined goals, and they may also be not owed in the event of not reaching such goals; (c) up to R\$ 24,378,653.00 (twenty-four million, three hundred seventy eight thousand and six hundred and fifty three reais) corresponding to taxes and charges that have an incidence over the compensation and the responsibility of Vale, and also, benefits of any nature; and (d) up to R\$ 504,000.00 (five hundred and four thousand reais) corresponding to the remuneration of the members of the Advisory Committees and charges related to that remuneration.

It is important to note that the proposal for overall compensation shown above considers the remuneration of the members of the Advisory Committees and charges related to that remuneration, an amount that is not shown in item 13.2.

Moreover, it is proposed the ratification of amounts paid to directors in fiscal year 2012, with the supplemental amount of R\$ 1,058,463.00 (one million, fifty eight thousand four hundred sixty three reais), due to the payment of indemnity for employment termination in 2012.

Table of Contents**14.1 - Description of human resources****I) the number of company employees (total, by groups based on activity, and by geographic location)**

The table below shows the number of employees of the Company and its controlled companies for the financial years closed December 31, 2010, 2011 and 2012:

Financial Year ended December 31st of:

	2010	2011	2012
Total number of company employees	70,785	79,646	85,305
Per business area			
Ferrous	25,465	27,620	29,806
Non ferrous	17,765	15,252	16,300
Coal	1,776	2,741	2,991
Logistics	14,116	17,657	19,440
Fertilizers	6,284	7,127	7,340
Others (1)	5,379	9,249	9,428
Per geographical area			
Brazil	56,012	62,667	67,580
Canada	6,390	6,609	6,766
Indonesia	3,144	3,218	3,172
New Caledonia	950	1,123	1,198
Australia	893	1,055	1,067
USA		8	0
China	136	135	134
Mozambique	570	1,294	1,918
Peru	523	800	766
Colombia	361	457	7
Chile	183	203	527
Others (2)	1,623	2,077	2,170

(1) This includes the following: Exploration, Energy, Engineering, Institutes and Foundations, Project Management, Shared Services, and Corporate Services.

(2) This includes the following: Angola, Argentina, Austria, Congo, Dubai, England, Guinea, India, Japan, Kazakhstan, Malaysia, Malawi, Mongolia, Oman, Paraguay, Philippines, Singapore, South Africa, South Korea, Switzerland, Taiwan, Thailand, Wales, and Zambia.

II) the number of outsourced employees (total, by groups based on activity, and by geographic location)

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The table below shows the number of outsourced employees of the Company and its controlled companies for the financial years closed December 31, 2010, 2011, and 2012 by activity and by geographic location:

288

Table of Contents

	Financial Year ended December 31st of:		
	2010	2011	2012
Total number of outsourced employees	103,300	108,084	110,343
Per business area			
Ferrous	12,674	10,427	12,707
Non ferrous	16,024	16,611	16,322
Coal	1,194	5,483	4,666
Logistics	10,392	8,614	11,069
Fertilizers	10,043	11,975	12,117
Others (1)	52,973	54,974	53,462
Per geographical area			
Brazil	74,857	83,723	85,246
Canada	3,583	5,149	6,959
Indonesia	3,169	5,315	3,780
New Caledonia	4,701	3,131	2,712
Australia	437	489	216
USA			0
China			0
Mozambique	7,729	4,121	4,497
Peru	575	1,313	987
Colombia	860	1,109	0
Chile		504	714
Others (2)	1,056	3,230	5,232

(1) This includes the following: Exploration, Energy, Engineering, Institutes and Foundations, Project Management, Shared Services, and Corporate Services.

(2) This includes the following: Angola, Argentina, Congo, Ethiopia, Cook Islands, India, England, Japan, Kazakhstan, Liberia, Malaysia, Mongolia, Oman, Paraguay, Philippines, Singapore, South Africa, Switzerland, Taiwan, Wales, and Zambia.

c. employee turnover index

The index of employee turnover (churning index) for the financial years ending in 2010, 2011, and 2012 was 6.0%, 4.7%, and 5.1%, respectively. The churning index is calculated based on data from Vale S.A. and its controlled companies in the following countries: Brazil, Canada, Indonesia, Mozambique, New Caledonia, Australia, China, Argentina, Chile, England, Japan, Oman, Paraguay, Peru, Taiwan, and Wales.

d. the company's exposure to labor liabilities and contingencies

The company is a defendant in 20,068 labor and pension-related lawsuits, involving a total value of R\$ 7.4 billion, for which there is a provision of R\$ 1.4 billion by reason of the risks involved. The labor and pension-related lawsuits brought against the Company deal with matters such as: overtime, hours traveling, additional pay for unhealthy and dangerous working conditions, pay equity, and outsourcing, among others.

For a detailed description of the nature of the labor cases considered relevant to the business of the Company or its controlled companies, see item 4.3 of this Reference Form.

14.2 Relevant changes Human resources

Regarding the number of workers, there was a decrease in the number of Company employees and contractors in Colombia as a result of asset sale in that country. There was also a reduction in the number of employees and contractors as a result of manganese asset sales in France and Norway.

in the Non ferrous business area, which is a result of the sale of Aluminum assets. The beginning of operations of projects in Oman led to a reduction in the number of outsourced employees in the Ferrous business area. The same thing occurred with projects in Mozambique and led to an increase in the number of Company employees in that country.

14.3 Description of Company employee remuneration policies

a. Salary and variable remuneration policy

Vale follows the practice already adopted in recent years to carry out comparative research on remuneration and offers all its own employees a salary equal to or higher than the legal minimum practiced in each location. Additionally, in order to strengthen the culture of constant pursuit of results, the

Table of Contents

remuneration package for each employee includes the payment of variable remuneration, calculated according to the results achieved by the performance of the Company, the department, and the individual or the team.

In Vale's own units, performance assessment is based on annual goals aligned to Company strategy. These evaluations are conducted through an interactive process between employees and their managers, as well as using computer systems, in which the results are logged. The goals also serve as a basis for the Variable Remuneration Program, which awards employees for meeting or exceeding them. Each employee has a panel of annual goals, comprised of three blocks: Company Goals, Department Goals, and Individual/Team Goals. At the beginning of each year the results are evaluated in terms of the goals from the previous year. Each goal totally or partially reached corresponds to a number of points and the sum of the points of the three blocks corresponds to the variable remuneration of the employee.

For the short-term performance cycle (annual), the goals are defined based on the established, principal strategic objectives and annual budget, measuring economical-financial performance, technical and operational performance, and sustainability (management, health and safety, and environment).

Since November 2007, Vale has signed collective agreements valid for two years with all trade unions representing 100% of the total number of Company employees in Brazil. As a result of the agreements, for the period 2011-2013 there was a salary increase of 8.6% in 2011 and there will be another of 8.0% in 2012, resulting in a total of 17.29% of readjustment. A new agreement is supposed to be negotiated with the Unions in November 2013. In Canada, Australia, Indonesia, New Caledonia, Mozambique, Peru, England, Oman, Chile, and Argentina, Vale negotiates collective agreements with workers' trade unions, with a duration of typically between one and five years.

Certain employees who are part of the management framework of Vale may participate in long-term incentives, depending on eligibility for each plan, such as: (i) Matching, a program based on shares with the objective of compensating and retaining managers, in which the eligible employee invests in shares of Vale at time 0 and, if he meets certain requirements, the Company grants, after three years, an equivalent number of shares as were purchased at time 0; (ii) Project Bonus, a long-term program directed toward leaders of capital projects based on performance and sustainability of the projects; and (iii) Long-Term Incentive Program, a program that grants virtual shares of Vale to executives, taking into consideration the relative performance of the total return to the shareholder over a three-year period compared with a group of similar companies (peers) during the same period.

The salary and variable remuneration policy for non-statutory directors is described in item 13 of this Reference Form.

b. Benefits policy

The benefits are part of the total compensation package that ensures the employees and their legal dependents protection and security during the term of the contract of employment.

Vale establishes global guidelines for granting benefits to ensure that they are offered consistently in the various countries where Vale is present, bearing in mind the goals of its business in each locality, the human relations philosophy and corporate strategy, in addition to the legal

requirements of the country and the given local market conditions.

Benefits considered essential are social security, health plan, life and accident insurance, and income plans for times when the employee leaves the Company.

Benefits such as transport vouchers, education, Employee Assistance Plan, meals at work, and personal accident insurance are offered in accordance with the specificity of each location.

As a result of the process of globalization of the benefits offered, since 2011 Vale provides Global Health Insurance to meet the needs all expatriate employees and their dependents in an equitable way, offering the same coverage anywhere in the world.

c. Characteristics of compensation plans based in shares for non-administrative employees

Compensation plans based in shares described in item 13.4 of this Reference Form, which are the Long-Term Incentive Program and Matching, include the Company's non-statutory directors, as well as

Table of Contents

managerial-level employees. The characteristics of these plans are described in item 13.4 of this Reference Form.

14.4 - Description of the relationships between the issuer and trade unions

Vale builds a harmonious relationship with trade unions all around the world. That covers approximately 50 trade unions in Brazil and 12 trade unions in the rest of the world. Today, there are collective agreements in Brazil, Canada, the United Kingdom, Norway, France, Peru, Argentina, Paraguay, Malawi, Mozambique, Australia, New Caledonia, Chile and Indonesia. In addition, preliminary collective bargaining negotiations are underway in Oman and Chile.

In 2012 all collective agreements were concluded without the occurrence of strikes, this in a year when there were strikes in other members of the industry.

In 2012, Vale continued to favor long-term collective labor agreements respecting the specificities of each country. For example, in Brazil, Vale is one of the few companies that, since 2007, has been signing two-year long collective labor agreements. This also occurs in New Caledonia, where agreements have a term of three years, and Canada, where we have agreements with a five-year term.

Vale has been a pioneer in Brazil in the conclusion of Collective Agreements of participation in the results with defined goals and a two-year term.

Since 2005, employees elect a representative to the Management Council. Elections are a result of a joint effort between company and unions.

In Brazil, in every semester since 2010, the company meets with the unions to discuss themes such as Health and Safety in the Workplace . Brazilian Central Unions also take part in these meetings.

Table of Contents

15.1 / 15.2 Identification of majority shareholder or group of shareholders / Information on shareholders or groups of shareholders who work in conjunction with or who represent the same interests, with a share equal to or greater than 5% of the same class or type of shares and which are not listed in item 15.1 .

Vale S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares Class A		d) and e) Preferred Shares Class		d) and e) Total of Preferred Shares		f) Total
	Nationality	State		Quantity	%	Quantity	%	Quantity	%	Quantity	%	
Valepar S.A.	Brazilian	RJ	01.772.413/0001-57	1,716,435,045	52.7%	20,340,000	1.0%	0	0.0%	20,340,000	1.0%	1,736,775,045
BNDES Participações S.A.	Brazilian	RJ	00.383.281/0001-09	206,378,881	6.3%	67,342,071	3.2%	0	0.0%	67,342,071	3.2%	273,720,952
Aberdeen Asset Management PLC	British			1,330,000	0.0%	156,956,731	7.4%	0	0.0%	156,956,731	7.4%	158,286,731
Shares in Treasury				71,071,482	2.2%	140,857,692	6.7%	0	0.0%	140,857,692	6.7%	211,929,174
Others				1,261,509,074	38.7%	1,723,083,112	81.7%	12	100.0%	1,723,083,124	81.7%	2,984,592,198
Total				3,256,724,482	100.0000	2,108,579,606		12		2,108,579,618		5,365,304,100

Table of Contents**h) Information on direct and indirect controlling entities of Valepar, as far as controlling entities who are individuals:**

The table below presents information on Valepar S.A., direct controlling entity of Vale at December 31, 2012:

Valepar S.A.

a) Shareholder	b)			d) and e) Common Shares		d) and e) Preferred Shares Class A		d) and e) Preferred Shares Class B		d) and e) Preferred Shares Class C		d) and e) Total of Preferred Shares	
	Nationality	State	c) CPF/CNPJ	Quantity	%	Quantity	%	Quantity	%	Quantity	%	Quantity	%
Litel Participações S.A.	Brazilian		00.743.065/0001-27	637,443,857	49.00%	200,864,272	71.41%	0	0.00%	0	0.00%	200,864,272	55.3
Bradespar S.A.	Brazilian	SP	03.847.461/0001-92	275,965,821	21.21%	0		0	0.00%	9,655,791	15.03%	9,655,791	2.6
Mitsui & Co., Ltd	Japanese		05.466.338/0001-57	237,328,059	18.24%	0		0	0.00%	14,828,641	23.08%	14,828,641	4.0
BNDES Participações S.A.	Brazilian	RJ	00.383.281/0001-09	149,787,385	11.51%	0		0	0.00%	13,368,899	20.80%	13,368,899	3.6
Eletron S.A.	Brazilian		00.514.998/0001-42	380,708	0.03%	0		0	0.00%	23,787	0.04%	23,787	0.0
Others				0	0.000%	80,416,931	28.59%	17,517,362	100.00%	26,383,602	41.06%	124,317,895	34.2
Total				1,300,905,830	100.000%	281,281,203		17,517,362		64,260,720		363,059,285	100.0

Table of Contents

The following table presents information on Litel Participações S.A., direct controlling entity of Valepar S.A. at December 31, 2011:

Litel Participações S.A.

a) Shareholder	b) Nationality	State	c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares Class A		d) and e) Preferred Shares Class B		d) and e) Preferred Shares Class C		d) and e) Total of Preferred Shares		f) Total Quantity
				Quantity	%	Quantity	%	Quantity	%	Quantity	%	Quantity	%	
BB Carteira	Brazilian													
Ativa			01.578.476/0001-77	193,740,121	78.40	103	14.11%	28,385,274	100.00	0.00	0.00	28,385,377	83.4%	222,125,498
Others				53,388,224	21.60	627	85.89%	0.00		5,648,720	100.00	5,649,347	16.6%	59,037,571
Total				247,128,345	100.00	730	100%	28,385,274		5,648,720		34,034,724	100.00	281,163,069

The following table presents information on Bradespar S.A., direct controlling entity of Valepar S.A. at December 31, 2012:

Bradespar S.A.

a) Shareholder	b) Nationality	State	c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares		f) Total		Shareholders agreement	Controlling entity	Date of last change
				Quantity	%	Quantity	%	Quantity	%			
NCF Participações S.A.	Brazilian	SP	04.233.319/0001-18	30,388,376	24.8000	2,235,627	0.98	32,624,003	9.33000	No	Yes	12/28/2012
Cidade de Deus Cia. Cial. de Participações S.A.	Brazilian	SP	61.529.343/0001-32	44,883,224	36.6300	300,960	0.13	45,184,184	12.93000	No	Yes	12/28/2012
Fundação Bradesco	Brazilian	SP	60.701.521/0001-06	18,179,304	14.8400	0.000	0	18,179,304	5.20000	No	Yes	12/28/2012
Others				29,072,145	23.7300	224,488,309	98.89	253,560,454	72.54000			
Total				122,523,049	100	227,024,896	100	349,547,945	100			

The following table presents information on the controlling group of Cidade de Deus Cia. Cial. de Participações S.A., direct controlling entity of Bradespar S.A., at December 31, 2011:

Table of Contents

Cidade de Deus Cia. Cial. De Participações S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares		f) Total		Shareholders agreement	Controlling entity	Date of last change
	Nationality	State		Quantity	%	Quantity	%	Quantity	%			
Nova Cidade de Deus Participações S.A.	Brazilian	SP	04.866.462/0001-47	3,057,206,478	44.91	0	0	3,057,206,478	44.91	No	Yes	12/28/2012
Fundação Bradesco Lina Maria Aguiar	Brazilian	SP	60.701.521/0001-06	2,260,414,153	33.20	0	0	2,260,414,153	33.2	No	Yes	12/28/2012
Lina Maria Aguiar	Brazilian	SP	017.080.078-49	579,444,161	8.51	0	0	579,444,161	8.51	No	Yes	12/28/2012
Lia Maria Aguiar	Brazilian	SP	003.692.768-68	477,246,715	7.01	0	0	477,246,715	7.01	No	Yes	12/28/2012
Others				433,807,414	6.37	0	0	433,807,414	6.37			
Total				6,808,118,921	100.0	0	0	6,808,118,921	100.0			

The following table presents information on Nova Cidade de Deus Participações S.A., direct controlling entity of Cidade de Deus Cia. Cial. de Participações S.A. and of Bradespar, at December 31, 2012:

Nova Cidade de Deus Participações S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares		f) Total		Shareholders agreement	Controlling entity	Date of last change
	Nationality	State		Quantity	%	Quantity	%	Quantity	%			
Fundação Bradesco BDD Participações S.A.	Brazilian	SP	60.701.521/0001-06	120,829,336	46.3	276,524,008	100	397,353,344	73.93	No	Yes	12/28/2012
BDD Participações S.A.	Brazilian	SP	07.838.611/0001-52	140,131,899	53.7	0	0	140,131,899	26.07	No	Yes	12/28/2012
Total				260,961,235	100	276,524,008	0	537,485,243	100			

The following table presents information on BDD Participações e Investimentos S.A., controlling entity of Nova Cidade de Deus Participações S.A., at December 31, 2012:

BDD Participações S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares		f) Total		Shareholders agreement	Controlling entity	Date of last change
	Nationality	State		Quantity	%	Quantity	%	Quantity	%			

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Lázaro de Mello												
Brandão	Brazilian	SP	004.637.528-72	10,997,761	6.24	0	0	10,997,761	3.56	No	Yes	12/28/20
NCD												
Participações												
Ltda.	Brazilian	SP	48,594,139/0001-37	0		62,139,088	46.77	62,139,088	20.1	No	Yes	12/28/20
Shares in												
Treasury				70,021,316	39.74	18,534,259	13.95	88,555,575	28.65	No	No	
Others				95,187,222	54.02	52,197,264	39.28	147,384,486	47.69			
Total				176,206,299	100.00	132,870,611	100	211,888,565	100.00			

Table of Contents

The following table presents information on NCF Participações S.A., direct controlling entity of Bradespar S.A., at December 31, 2012:

NCF Participações S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares		f) Total		Shareholders agreement	Controlling entity	Date of last change
	Nationality	State		Quantity	%	Quantity	%	Quantity	%			
Fundação Bradesco	Brazilian	SP	60.701.521/0001-06	263,599,179	25.13	934,903,748	100	1,198,502,927	60.41	No	Yes	12/28/2012
Cidade de Deus Cia. Cial. de Participações S.A.	Brazilian	SP	61.529.343/0001-32	783,823,274	74.72	0	0	783,823,274	39.51	No	Yes	12/28/2012
Nova Cidade de Deus Participações S.A.	Brazilian	SP	04.866.462/0001-47	1,569,343	0.15	0	0	1,569,343	0.08	No	Yes	12/28/2012
Total				1,048,991,796	100	934,903,748	100	1,983,895,544	100			

The following table presents information on BNDES Participações S.A., shareholder of more than the 5% of the voting capital stock of Valepar S.A. at December 31, 2012:

BNDES Participações S.A.

Shareholder	Nationality	CPF/CNPJ	Common shares Qty.	%	Total of shares Qty.	%	Shareholders agreement	Controlling entity	Date of last change
Banco Nacional de Desenvolvimento Econômico e Social BNDES	Brazilian	33.657.248/0001-89	1	100.00	1	100.00		Yes	[31/12/11]
Total			1	100.00	1	100.00			

The following table presents information on Eletron S.A., direct controlling entity of Valepar S.A. at December 31, 2012:

Table of Contents**Eletron S.A.**

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common				Shareholders agreement	Controlling entity	Date of last change		
	Nationality	State		Shares	d) and e) Preferred	Shares	f) Total					
				Quantity	%	Quantity	%	Quantity	%			
Opportunity Anafi Participações S.A.	Brazilian	RJ	02.992.366/0001-10	9,256,362	99.97%			9,256,362	99.97%	No	Yes	12/20/2012
Others				1,086	0.03%			1,086	0.02%			
Total				9,257,448				9,257,448				

The following table gives information on Opportunity Anafi Participações S.A., direct controlling entity of Eletron S.A., at December 31, 2012:

Opportunity Anafi Participações S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common				Shareholders agreement	Controlling entity	Date of last change		
	Nationality	State		Shares	d) and e) Preferred	Shares	f) Total					
				Quantity	%	Quantity	%	Quantity	%			
Belapart S.A.	Brazilian	RJ	01.608.571/0001-76	1,236,116	38.47%	0	0	1,236,116	38.47%	No	No	01/14/2011
Opportunity Holding FIP	Brazilian	RJ	08.277.553/0001-06	2,249,016	23.06%	723,193	0	2,972,209	23.06%	No	No	10/26/2012
Valetron S.A.	Brazilian	RJ	01.772.313/0001-20	1,236,116	38.47%	0	0	1,236,116	38.47%	No	No	01/14/2011
Others				6	0.00%			6	0.00%			
Total				4,721,254	100.00%	723,193	100	5,444,447	100.00%			

The table below presents information on Belapart S.A. and Valetron S.A., direct controlling entities of Opportunity Anafi Participações S.A., at December 31, 2012:

Valetron S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common				Shareholders agreement	Controlling entity	Date of last change		
	Nationality	State		Shares	d) and e) Preferred	Shares	f) Total					
				Quantity	%	Quantity	%	Quantity	%			
Verônica Valente Dantas	Brazilian	RJ	262.853.205-00	507	51.00%			507	51.00%			
Sweet River Fund	Cayman Islands		05.707.521/0001-05	490	49.00%			490	49.00%	No	No	03/02/2004
Others				3	0.00%			3	0.00%			
Total				1,000				1000	0.00%			

Table of Contents

Belapart S.A.

a) Shareholder	b)		c) CPF/CNPJ	d) and e) Common Shares		d) and e) Preferred Shares		f) Total		Shareholders agreement	Controlling entity	Date of last change
	Nationality	State		Quantity	%	Quantity	%	Quantity	%			
Verônica Valente Dantas	Brazilian	RJ	262.853.205-00	507	51.00%			507	51.00%	No		
Sweet River Fund	Cayman Islands		05.707.521/0001-05	490	49.00%			490	49.00%	No		03/02/2004
Others				3	0.00%			3	0.00%			
Total				1,000				1000	0.00%			

Table of Contents**15.3 Distribution of Capital**

Date of last meeting	05/07/2013
Number of individual shareholders	155,243
Number of corporate shareholders	2,007
Number of institutional investors	2,556

Outstanding shares

Outstanding shares corresponding to all shares issued by the Company, except for the shares kept by the controlling entity, by people related to it, by the managers of the Company, and by the shares held in treasury

Quantity of common shares (Units)	1,262,807,243	38.8%
Quantity of preferred shares (Units)	1,879,212,086	89.1%
Quantity of class A preferred shares (Units)	1,879,212,086	89.1%
Total	3,142,019,329	58.6%

15.4 In case the issuer desires to do so, please insert the organizational chart of company shareholders identifying all direct and indirect controlling entities as well as shareholders with participation equal to or more than 5% of one class or type of shares, compatible with the information stated in 15.1 and 15.2:

Vale decided not to disclose the organizational chart of its shareholders at that moment.

15.5 Shareholders Agreements filed at the headquarters of the Company in which the controlling entity participates, which regulate the exercise of voting rights or rights to transfer Company shares:

Vale does not have a shareholders agreement. However, the controlling shareholders of Valepar S.A. signed a Private Instrument of Agreement for Valepar S.A. shareholders (Shareholders Agreement).

a) Parties

Litel Participações S.A., Bradespar S.A., Mitsui & Co. Ltd., BNDES Participações S.A. and Eletron S.A. (Signatories)

b) *Date of Signing*

April 24, 1997.

Table of Contents

c) *Term*

20 years from the date signed, extendable for equal periods of 10 years.

d) *Description of clauses relative to the exercise of the right to vote and controlling votes.*

The Shareholders' Agreement stipulates that the Signatories shall be obliged to orientate their representatives in the General Meetings and the meetings of Vale's Board of Directors to vote as per agreed in the Prior Meeting of Valepar.

With the exception of permitted quorums mentioned below, items in the Prior Meetings will be decided by a simple majority of the votes of the Signatories present.

In accordance with the Shareholders' Agreement, it is necessary to have the support of at least 75% of the holders of the relevant common shares for the adoption of the following items:

- amendment of Vale's bylaws, except for a legal requirement;

- increase of Vale's share capital by share subscription, creation of a new class of shares, change in the characteristics of the existing shares or any reduction of Vale's share capital;

- issuance of debentures of Vale, whether or not convertible into shares of Vale, call options or any other security of Vale;

- determination of issuance price for any new shares of share capital or other security of Vale;

- amalgamation, spin-off, or merger to which Vale is a party, as well as any change to Vale's corporate form;

- dissolution, receivership, bankruptcy or any other voluntary act for financial reorganization or any suspension thereof;

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- the election and replacement of Vale's Board of Directors and of Executive Officers of Vale;
- the election and replacement of the Chairman of the Board of Vale;
- the disposal or acquisition by Vale of an equity interest in any company, as well as the acquisition of any shares of share capital of Vale for maintenance in treasury;
- the participation by Vale in a group of companies or in a consortium of any kind;
- the execution by Vale of agreements relating to distribution, investment, sales, exportation, technology transfer, trademark license, patent exploration, license to use, and leases in which Vale is a part;
- the approval and amendment of Vale's business plan;
- the determination of the compensation of the executive officers and directors of Vale, as well as the duties of the Board of Directors and the Board of Executive Officers;
- any profit sharing among the members of the Board of Directors or Board of Executive Officers of Vale
- any change in the corporate purpose of Vale;
- the distribution or non-distribution of any dividends (including distributions classified as interest on shareholders' equity) on any shares of share capital of Vale other than as provided in Vale's bylaws;
- the appointment and replacement of Vale's independent auditor;
- the creation of any in rem guarantee, granting of guarantees including rendering of sureties by Vale with respect to obligations of any unrelated party, including any affiliates or subsidiaries;
- the passing of any resolution on any matter which, pursuant to applicable law, entitles a shareholder to withdrawal rights through reimbursement of his shares;

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- the appointment and replacement by the Board of Directors of any representative of Vale in subsidiaries, companies related to Vale or other companies in which Vale is entitled to appoint directors and officers; and

- any change in the maximum debt limit and debt to equity threshold, as defined in the shareholders agreement, among others.

Table of Contents

e) Description of clauses relative to the appointment of directors

The management of Vale's business will be carried out by experienced, independent, competent professionals, who have the required qualifications for the positions that they hold.

For the purpose of electing Members of the Board at the respective General Meetings, the Signatories will indicate the total number of Board members, whose designation will fall to Valepar, proportionately to its share in the share capital of Valepar. The CEO of Vale will be selected from names in a triple list put forward by an international executive search company and elected in a meeting of the Board of Directors summoned for this purpose. It will fall to the CEO of Vale to propose to the Board of Executive Officers the names of the other directors.

Each Signatory will, during the period of his or her respective mandate, be able to replace the Board member they indicated. In this situation, all Signatories will vote in favor of the name thus proposed at the General Meeting called for this purpose.

f) Description of clauses relative to the transfer of shares and the preference for acquiring them

The Shareholder Agreement stipulates that Valepar S.A. will have preference as regards the Signatories for the acquisition at any time of Vale's shares, as well as vetoing the direct acquisition of Vale shares by the Signatories, unless there is authorization from the remaining Signatories, to be granted in a Prior Shareholder Meeting, at which the issue must be approved by a quorum of 75% of the total of the common Valepar shares, related to the shareholder agreement.

In line with the Shareholder Agreement, it is necessary to have the Approval of the Shareholders of 100% of the common shares related to the Agreement in question for the disposal in any form of Vale shares owned by Valepar.

g) Description of clauses which restrict or tie voting rights of members of the Board of Directors

See line d) .

15.6 Significant Changes in the shareholdings of Members of the Control Group and directors of the Company in the last 3 financial years

There were no significant changes in the shareholdings of Members of the Control Group and directors of the Company in the last 3 financial years.

15.7 Other information which the Company deems relevant

The following is additional information related to Vale controlling group:

1) As described in item 15.1, **Litel Participações S.A.**, is one of the indirect controllers of Vale, and it is controlled by BB Carteira Ativa.

BB Carteira Ativa shares are 100% owned by PREVI Caixa de Previdência dos Funcionários do Banco do Brasil (PREVI). BB Carteira Ativa is managed by BB Gestão de Recursos Distribuidora de Títulos e Valores Mobiliários S.A.

Previ is a private pension fund and its participants are employees of the Banco do Brasil and of Previ itself. Previ management is divided between the Board of Directors and the Board of Executive Officers. The Board of Executive Officers is composed of six members: President, Director of Administration, and Directors for Investments, Security, Participations, and Planning. The Board of Directors is composed of six members and their substitutes. Three are elected by the participants and users of the security, and three others indicated by the Banco do Brasil. According to the Statutes of Previ, the Board of Directors is the part of the organizational structure responsible for defining the general policy of the administration of the entity.

On December 31, 2012 the Board of Directors was composed of the following board members: Robson Rocha (President), Ivan de Souza Monteiro, Alexandre Correa Abreu, Rafael Zanon Guerra de Araújo, Celia Maria Xavier Larichia and Haroldo do Rosário Vieira; and their respective substitutes: Carlos Eduardo Leal

Table of Contents

Neri, Carlos Alberto Araújo Netto, Eduardo Cesar Pasa, José Ulisses de Oliveira, Jr., Luiz Carlos Teixeira, and José Souza de Jesus. The Board of Executive Officers was composed of the following members: Dan Conrado (President), Paulo Assunção de Sousa (Director of Administration), Renê Sanda (Director of Investments), Marco Geovanne Tobias da Silva (Director of Participations), Vitor Paulo Camargo Gonçalves (Director of Planning), Marcel Juvinião Barros (Director of Security). The Audit Committee was composed of the following members: Fabiano Félix do Nascimento (Presidente), Odali Dias Cardoso, Aureli Carlos Balestrini, and Sandro Kohler Marcondes; and by their corresponding substitutes: Aldo Bastos Alfano, Diusa Alves de Almeida, Daniel André Stieler and Vagner Lacerda Ribeiro. Additionally, the CEO, Mr. Dan Conrado, for monitoring the companies which make up the variable income portfolio and the real estate portfolio, especially as concerns the shareholdings and Previ's share and representation in the administrative and supervisory organs of the companies or undertakings, with a view to adopting any measures necessary to assure good corporate governance for companies in which investments have been made.

2) As described in the item 15.1, **Fundação Bradesco** is one of the indirect controlling of Vale.

The Fundação Bradesco is a non-profit entity which has worked to foster and develop children and adolescents through schools in low income areas. The activities of the Bradesco Foundation are financed exclusively by resources coming from donations which Bradesco and its affiliates make, as well as from dividends and interest on its own capital from its share in Bradesco capital.

According to the terms of the Fundação Bradesco bylaws, all Bradesco directors, members of the Board and department directors, as well as all directors and responsible for Cidade de Deus Cia. Cial. de Participações S.A., act as members of the board of trustees of the Fundação Bradesco, known as the Mesa Regedora,

3) As described in the item 15.1, **Mitsui & Co. Ltd.** is one of the indirect controlling of Vale.

Mitsui & Co. Ltd., direct controlling entity of Valepar S.A., has share control spread among many shareholders. The following table presents information regarding Mitsui & Co. Ltd. on March 31, 2013:

Mitsui & Co. Ltd.

Shareholder	Common shares		Preferred shares		Total number of shares		Shareholder's Controlling agreement	Controlling entity	Date of last change
	Qty	%	Qty	%	Qty	%			
The Master Trust Bank of Japan, Ltd. (trust account)	150,416,000	8.22%			150,416,000	8.22%	No	No	03/31/13
Japan Trustee Services Bank, Ltd. (trust account)	107,374,000	5.87%			107,374,000	5.87%	No	No	03/31/13
SSBT OD05 Omnibus Account (Treaty Clients)	39,918,000	2.18%			39,918,000	2.18%	No	No	03/31/13
Sumitomo Mitsui Banking Corporation	38,500,000	2.10%			38,500,000	2.10%	No	No	03/31/13
Japan Trustee Services Bank, Ltd. (Trust account 9)	36,155,000	1.97%			36,155,000	1.97%	No	No	03/31/13

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Nippon Life Insurance Company	35,070,000	1.91%	35,070,000	1.91%	No	No	03/31/13
The Chase Manhattan Bank, N.A. London Secs Lending Omnibus Account	33,070,000	1.84%	33,070,000	1.84%	No	No	03/31/13
Others	1,388,650,527	75.91%	1,388,650,527	75.91%			03/31/13
Total	1,829,153,527	100%	1,829,153,527	100%			

Table of Contents

4) As described in item 15.1, **Banco Nacional de Desenvolvimento Econômico e Social - BNDES** is one of the indirect controlling entities of Vale. BNDES is a public company with legal personality under private law, whose shares are 100% owned by the Federal Government.

5) As described in item 15.1, **Opportunity Holding FIP** is one of the indirect controlling entities of Vale. Opportunity Holding FIP is an investment fund, and the person responsible for its investment decisions is the fund manager, Mr. Marco Nascimento Ferreira, CPF No. 489.614.185-72.

6) Regarding the relevant Aberdeen Asset Managers Limited's share participation, on March 2013 we received we learned the share status.

Table of Contents**16 Information on transactions with related parties**

Vale is the largest private Brazilian company, and operates in various segments of the economy, with cash flow and wealth consistent with its size. For this reason, in view of the constant search for better trading conditions for the achievement of its activities and the investment of its resources, the Company often negotiates the terms of the transactions inherent in its businesses, which inevitably leads to agreeing on transactions with related parties whenever its best interests and those of its shareholders are served.

Thus, transactions with related parties are made by the Company in a strictly exchanged based manner, observing usual price and market conditions, and therefore do not generate any undue advantage to their counterparts nor damage to the Company.

As provided in the Bylaws, it is Vale's Board of Directors' responsibility to discuss any business between the Company and (i) its shareholders, directly or through interposed companies, (ii) companies that participate, directly or indirectly, in the capital of a controlling shareholder or are Subsidiary by or under common control of entities that participate in the capital of the controlling shareholder, and/or (iii) companies in which the controlling shareholder of the company is involved. Accordingly, the Board of Directors may delegate responsibilities with limits and procedures that meet the peculiarities and nature of operations, without withholding due information on all the Company's transactions with related parties.

Additionally, Vale has Governance and Sustainability Committee committed to reviewing and proposing improvements to its management system to avoid conflicts of interest, as well as advising on potential conflicts of interest between the Company, its shareholders, and directors.

The procedures for making decisions for the conduct of transactions with related parties follow the terms of Corporate Law, which stipulate that the shareholder or director, as appropriate, in general meetings or meetings of directors, abstain from voting on resolutions concerning: (i) the valuation report of assets, which contribute to the formation of equity capital, (ii) the approval of its accounts as administrator, and (iii) any matters that may benefit them in any particular way. Additionally, in accordance with the provisions of Corporate Law and the practices adopted by Vale, its administrators must abstain from intervening in any matter in which they have conflicting interests with the Company, including withdrawing from the room or area where the administration meeting is being held.

16.2

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	10/08/2007
Amount (R\$)	R\$ 774,568,410.00
Current balance (R\$) (12/31/2012)	R\$ 486,536,915.00,
Amount of related party	Not applicable
Duration	09/15/2019
Loan or other type of debt	YES
Interest rate	1.8% per year
Relationship with the Issuer	Indirect controlling shareholder
Purpose of the contract	Funding for expansion of transport capacity of Carajás Railroad

Guaranties and insurance

Conditions of termination or expiration

None

BNDES may terminate the contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:

- a) reducing Vale's staff without offering training programs and/or replacement programs for workers in other companies;

- b) inclusion in Vale bylaws, statute or contract, of a provision by which a special quorum is required for deliberation or approval of matters limiting or restricting Vale or its controlling shareholders, or even the inclusion therein, of conditions leading to:
 - i) restrictions on Vale's ability to grow or its technological development;
 - ii) restrictions on Vale's access to new markets; or
 - iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

- c) the use of proceeds to finance any purpose other than the expansion of

Table of Contents

Carajás railroad's transport capacity to 103 million tons transported annually;

d) give, without prior authorization from BNDES, guaranties of any kind in operations with other creditors without the same quality of guaranties provided to BNDES, with equal priority of payment;

e) not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES within 60 days from the date of written communication.

In case the proceeds granted under this Contract are used for any purpose other than the expansion of the Carajás railroad's annual transport capacity to 103 million tons, BNDES, without prejudice to the provisions, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 06.16.86.

This contract will also expire, with the enforceability of the debt and suspension of any immediate disbursement, at the date of installing as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, shareholder, or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

The change in indirect control of Vale, during the term of the Contract, is excluded from the possibility of early expiration by default.

Applicable interest rate is: TJLP (long-term interest rate) +1.8% per year.

Nature and reason for the transaction/other relevant information

This is funding for expansion of transport capacity of Carajás Railroad.

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Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	03/28/2008
Amount (R\$)	R\$ 808,350,800.00
Current balance (R\$) (12/31/2012)	R\$ 888,527,100.00
Amount of related party	Not applicable
Duration	09/15/2029
Loan or other type of debt	YES
Interest rate	1.46% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Financing for installation of the UHE Estreito Hydroelectric Power Plant
Guaranties and insurance	None
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:

a) reducing Vale's staff without providing training programs and/or replacement programs for workers in other companies;

b) inclusion in Vale bylaws, statute, or contract, of a provision by which a special quorum is required for deliberation or approval of matters limiting or restricting control of any of these companies by the respective controlling shareholders, or even the inclusion therein, of conditions leading to:

i) restrictions on Vale's ability to grow or its technological development;

ii) restrictions on Vale's access to new markets; or

iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

c) give, without prior authorization from BNDES, guaranties of any kind in

Table of Contents

operations with other creditors without the same quality of guaranties provided to BNDES, with equal priority of payment;

d) not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case the proceeds granted under this Contract are used for any purpose other than the installment of the UHE Estreito Hydroelectric Power Plant and its transmission system, BNDES, without prejudice to the terms set forth above in this Clause, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 06.16.86.

The contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, holder or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

The change in indirect control of Vale, during the term of the Contract, is excluded from the possibility of early expiration by default.
The applicable interest rates are: TJLP+1.46% per year (subcredits A and B), and TJLP (subcredit C).

This is financing for installation of UHE Estreito Hydroelectric Power Plant.

Nature and reasons for the operation / other relevant information

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of Transaction	12/26/2008
Amount (R\$)	R\$ 7,300,000.000.00
Current balance (R\$) (12/31/2012)	R\$ 3,450,555,793.00
Amount of related party	Not applicable
Duration	02/15/2023

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Loan or other type of debt	YES
Interest rate	1.5% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Credit line
Guaranties and insurance	None
Conditions of termination or expiration	<p>BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:</p> <p>a) reducing Vale's staff without providing training programs and / or replacement programs for workers in other companies;</p> <p>b) the existence of a definitive legal judgment on the performance of acts by Vale consisting of an infringement of legislation which deals with combating discrimination based on race or gender, child labor and forced labor;</p> <p>c) inclusion in Vale bylaws, statute, or contract, of a provision by which a special quorum is required for deliberation or approval of matters limiting or restricting control of any of these companies by the respective controlling shareholders, or even the inclusion therein, of conditions leading to:</p> <p>i) restrictions on Vale's ability to grow or its technological development;</p> <p>ii) restrictions on Vale's access to new markets, or</p> <p>iii) restrictions or loss of ability to pay financial obligations resulting from this operation;</p> <p>d) not observing the following ratios during the term of the agreement:</p> <ul style="list-style-type: none">• Adjusted EBITDA debt ratio less than or equal to 4.5, and• Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

Table of Contents

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case of change of indirect control of VALE, without prior authorization from BNDES, does not submit a letter of guaranty issued according to the BNDES model.

In the event proceeds granted under this contract are used for a purpose different from that provided for in Clause First: revolving credit limit, BNDES, notwithstanding above provisions, will notify the fact to the Federal Public Prosecutor pursuant to the terms of Law No. 7,492 of 06.16.86.

The contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or anyone who is remunerated by Vale, or any owner, holder or director of Vale, or any person listed the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

Nature and Reasons for the operation / other relevant information

The applicable interest rates are: Libor 3M+1.5% per year (subcredit A1, A2, A3, A4, A5, A6, A7, A8), Libor 3M + 2.0% per year (subcredits A9 and A10), TJLP (subcredits B4, B11, B15 and B18), TJLP + 1.30% per year (subcredit B17). TJLP + 1.36% per year (subcredits B2, B3, B6, B7, B9, B10, B13 and B14.). TJLP + 1.76% per year (subcredits B1, B5, B8 and B12). This is a credit line for financing Salobo I and II, Mineração Onça Puma, and Usina VIII and Itabira Capital Projects.

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	09/24/2012
Amount (R\$)	R\$ 3,882,956,000.00
Current balance (R\$) (12/31/2011)	R\$ 2,125,808,566.00
Amount of related party	Not applicable
Duration	09/15/2022
Loan of other type of debt	YES
Interest rate	1.3% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Financing to implement the Training Program for the Northern Logistic System (CLN), in order to increase the mineral transportation capacity from 115 million tns per year (Mtpa) to approximately 150 Mtpa.
Guaranties and insurance	None
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:

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a) reducing Vale's staff without providing training programs and / or replacement programs for workers in other companies

b) the existence of a definitive legal judgment on the performance of acts by Vale consisting of an infringement of legislation which deals with combating discrimination based on race or gender, child labor and forced labor;

c) inclusion in Vale bylaws, statute, or contract, of a provision by which a special quorum is required for deliberation or approval of matters limiting or restricting control of any of these companies by the respective controlling shareholders, or even the inclusion therein, of conditions leading to:

i) restrictions on Vale's ability to grow or its technological development;

ii) restrictions on Vale's access to new markets; or

iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

d) not observing the following ratios during the term of the agreement:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of

Table of Contents

written communication.

In case of change of indirect control of Vale, without prior authorization from BNDES, does not submit a letter of guaranty issued according to the BNDES model.

In the event proceeds granted under this contract are used for a purpose different from that provided for in First Clause: implementation of Training Program for the Northern Logistics System (CLN), with the purpose of increasing ore transportation from 115 million tons per year (Mtpa) to approximately 150 Mtpa.

The contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or anyone who is remunerated by Vale, or any owner, holder or director of Vale, or any person listed the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

The changes in Vale's internal shareholder control, during this Contract, is excluded from the hypothesis of early termination.

Nature and reasons for the operation / other relevant information

Applicable interest rates are: TJPL + 1.30% per year (subcredits A, B, C, D, and E), 1.30% per year (subcredits F and G) and, TJPL (subcredits H).

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	10/19/2012
Amount (R\$)	R\$ 88,635,000.00
Current balance (R\$) (12/31/2011)	R\$ 88,874,197.00
Amount of related party	Not applicable
Duration	11/15/2018
Loan or other type of debt	YES
Interest rate	1.70% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Financing for Phase III of Vale Fertilizantes
Guaranties and insurance	Vale's Corporate Guarantee
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:

- a) reducing Vale Fertilizantes' staff without providing training programs and / or replacement programs for workers in other companies;

b) the existence of a definitive legal judgment on the performance of acts by Vale Fertilizantes consisting of an infringement of legislation which deals with combating discrimination based on race or gender, child labor and forced labor;

c) inclusion in Vale Fertilizantes bylaws, statute or contract, of a provision by which a special *quorum* is required for deliberation or approval of matters limiting or restricting Vale or its controlling shareholders, or even the inclusion therein, of conditions leading to:

i) restrictions on Vale Fertilizantes ability to grow or its technological development;

ii) restrictions on Vale Fertilizantes access to new markets, or

iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

Not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case of change of indirect control of Vale Fertilizantes, without prior authorization from BNDES, does not submit a letter of guaranty issued according to the BNDES model.

In the event proceeds granted under this contract are used for a purpose different from that provided for in First Clause: acquisition of wagons, BNDES, notwithstanding

Table of Contents

above provisions, will notify the fact to the Federal Public Prosecutor pursuant to the terms of Law No. 7,492 of 06.16.86.

The contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or anyone who is remunerated by VLI Multimodal, or any owner, holder or director of VLI Multimodal, or any person listed the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

Applicable interest rate: 1.7% per year

Nature and reasons for the operation / other relevant information

Financing for Phase III of Vale Fertilizantes.

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	12/20/2012
Amount (R\$)	R\$ 90,989,000.00
Current balance (R\$) (12/31/2011)	R\$ 0.00
Amount of related party	Not applicable
Duration	01/15/2023
Loan or other type of debt	YES
Interest rate	2.5% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Financing for the acquisition of wagons for VLI Multimodal
Guaranties and insurance	Vale s Corporate Guarantee
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS , the following are certified by BNDES:

a) reducing VLI Multimodal s staff without providing training programs and / or replacement programs for workers in other companies;

b) the existence of a definitive legal judgment on the performance of acts by VLI Multimodal consisting of an infringement of legislation which deals with combating discrimination based on race or gender, child labor and forced labor;

c) inclusion in VLI Multimodal s, or their controlling company s, bylaws, statutes or agreements, of a provision by which a special *quorum* is required for deliberation or approval of matters limiting or restricting the payment of financial commitments made in this operation.

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d) Not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case of change of indirect control of Vale, without prior authorization from BNDES, does not submit a letter of guaranty issued according to the BNDES model. In case of change of indirect control of VLI Multimodal, without prior authorization from BNDES, VLI Multimodal does not submit a letter of guaranty issued according to the BNDES model.

In the event proceeds granted under this contract are used for a purpose different from that provided for in the First Clause: acquisition of wagons, BNDES, notwithstanding above provisions, will notify the fact to the Federal Public Prosecutor pursuant to the terms of Law No. 7,492 of 06.16.86.

The contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or anyone who is remunerated by VLI Multimodal, or any owner, holder or director of VLI Multimodal, or any person listed the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

Applicable interest rate: 2.5% per year

Nature and reasons for the operation / other relevant information

Financing for the acquisition of new wagons for VLI Multimodal.

Table of Contents

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	11/13/2009 11/06/2012 (amend 1)
Amount (R\$)	R\$ 40,154,200.00
Current balance (R\$) (12/31/2011)	R\$ 27,884,260.00
Amount of related party	Not applicable
Duration	02/15/2016
Loan or other type of debt	YES
Interest rate	1.80% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Financing to expand the storage capacity of plaster in Uberaba (Vale Fertilizantes)
Guaranties and insurance	Vale s Corporate Guarantee
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS , the following are certified by BNDES:

- a) reducing Vale Fertilizantes staff without providing training programs and / or replacement programs for workers in other companies;
- b) the existence of a definitive legal judgment on the performance of acts by Vale Fertilizantes consisting of an infringement of legislation which deals with combating discrimination based on race or gender, child labor and forced labor;
- c) inclusion in Vale Fertilizantes ,or of their controlling company s, bylaws, statute or contract, of a provision by which a special *quorum* is required for deliberation or approval of matters limiting or restricting the payment of financial commitments made in this operation.

Vale s noncompliance with the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case of change of indirect control of Vale Fertilizantes , without prior authorization from BNDES, not submit a letter of guaranty issued according to the BNDES model. In

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the event proceeds granted under this contract are used for a purpose different from that provided for in Clause First: acquisition of wagons, BNDES, notwithstanding above provisions, will notify the fact to the Federal Public Prosecutor pursuant to the terms of Law No. 7,492 of 06.16.86.

The contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or anyone who is remunerated by Vale, or any owner, holder or director of Vale, or any person listed the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

Nature and reasons for the operation / other relevant information

Applicable interest rate: 1.80% per year Financing for the expansion of plaster storing capacity in Uberaba (Vale Fertilizantes).

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	10/27/2010
Amount (R\$)	R\$ 246,636,000.00
Current balance (R\$) (12/31/2011)	R\$ 222,089,004.00
Amount of related party	Not applicable
Duration	11/15/2018
Loan or other type of debt	YES
Interest rate	2.2% per year and 5.50% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Financing for the expansion of phosphoric and sulfuric acids production in Uberaba

Table of Contents

Guaranties and insurance

(Vale Fertilizantes) and the acquisition of machines and equipment
Fiduciary property of the machine and equipment acquired, and lien of the ore rights from
the mine located at the city of Tapira.

Conditions of termination or expiration

BNDES may terminate this contract in advance, with the enforceability of the debt and
immediate suspension of any disbursement, if in addition to the cases set forth in Articles
39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS , the following
are certified by BNDES:

- a) reducing Vale Fertilizantes staff without providing training
programs and / or replacement programs for workers in other companies;

- b) the existence of a definitive legal judgment on the performance of
acts by Vale Fertilizantes consisting of an infringement of legislation which deals with
combating discrimination based on race or gender, child labor and forced labor;

- c) inclusion in Vale Fertilizantes bylaws, statute or contract, of a
provision by which a special *quorum* is required for deliberation or approval of matters
limiting or restricting Vale or its controlling shareholders, or even the inclusion therein,
of conditions leading to:
 - i) restrictions on Vale Fertilizantes ability to grow or its
technological development;
 - ii) restrictions on Vale Fertilizantes access to new markets, or
 - iii) restrictions or loss of ability to pay financial obligations resulting
from this operation;

- d) Not observing the following ratios during the term of the contract:
 - Adjusted EBITDA debt ratio less than or equal to 4.5, and
 - Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least
130% of the debt, as stipulated by BNDES, and within 60 days from the date of written
communication.

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e) the merger, separation, insolvency, incorporation, reduction of closing of capital, or changes in the effect, direct or indirect control of Vale Fertilizantes or one of its successors, or any other corporate restructuring process that involved Vale Fertilizantes (or its successors), without express prior authorization from BNDES;

f) the acquisition, without prior authorization from BNDES, of lien or encumbrance on the ore rights given to BNDES as guarantee;

In case of change of indirect control of Vale Fertilizantes, without express prior authorization from BNDES, Vale Fertilizantes does not submit a letter of guaranty issued according to the BNDES model.

Applicable interest rate: 2.12% per year and 5.50% per year

Nature and reasons for the operation / other relevant information

Financing for the expansion of plaster storing capacity in Uberaba (Vale Fertilizantes).

Name of related party

Banco Nacional de Desenvolvimento Econômico e Social BNDES and Ferrovia Centro Atlântica S/A - FCA

Date of transaction

11/16/2005

Amount (R\$)

R\$ 225,793,697.00

Current balance (R\$) (12/31/2011)

R\$ 240,344.00

Amount of related party

Not applicable

Duration

01/15/2013

Loan or other type of debt

YES

Interest rate

4.35% per year

Relationship with the Company

Indirect controlling shareholder (BNDES) and indirect controlling shareholder (FCA)

Purpose of the contract

Financing for investments in the railroad system of the Federal Railroad Network leased by Central Atlantic railroad S.A.

Guaranties and insurance

None

Conditions of termination or expiration

BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:

I) inclusion in FCA bylaws, statute or contract, of a provision by which a special *quorum* is required for deliberation or approval of matters limiting or restricting Vale's control of FCA, or even the inclusion therein, of conditions leading

Table of Contents

to:

- i) restrictions on FCA's ability to grow or its technological development;
- ii) restrictions on FCA's access to new markets, or
- iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

II) the reduction of FCA's staff while meeting its obligations with environmental agencies;

III) non-compliance by Vale with the project's goals such as investments made by the FCA in the railway system leased by the Federal Network Rail and invalidity of the bank guaranty in accordance with the model provided by BNDES.

IV) non-registration by Vale of this Amendment within 60 days as of December 13, 2005.

In case proceeds granted under this Contract are used for any purpose other than investments made by the FCA in the railway system leased by the Federal Network Rail, BNDES, without prejudice to the terms of this clause, will notify the fact to the Federal Public Prosecutor pursuant to the terms of Law No. 7492 of 06.16.86.

The change of control by Vale contemplated in section III of Article 39 of PROVISIONS APPLICABLE TO BNDES CONTRACTS referred to in the Eleventh Clause is excluded from the possibility of early maturity contemplated in this Clause during the term of this Amendment.

The applicable interest rates are: CM + 4.35% per year (in USD) and TJLP + 3% (in URTJLP)

This is financing for investments in the railroad system of the Federal Railroad Network leased by Central Atlantic railroad S.A

Nature and reasons for the operation / other relevant information

Name of related party
Date of transaction
Amount (R\$)
Current balance (R\$) (12/31/2011)
Amount of related party
Duration
Loan or other type of debt

Banco Nacional de Desenvolvimento Econômico e Social - BNDES
 12/14/2009
 R\$ 23,608,437.00
 R\$ 2,755,314.00
 Not applicable
 05/15/2013
 YES

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Interest rate	1.2% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Debt assumption of Usina Tecpar
Amount of related party	Not applicable
Guaranties and insurance	None
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS , the following are certified by BNDES:

- a) reducing TECPAR s staff without providing training programs and / or replacement programs for workers in other companies;

- b) the existence of a definitive legal judgment on the performance of acts by Vale or by TECPAR consisting of an infringement of legislation which deals with combating discrimination based on race or gender, child labor and forced labor;

- c) inclusion in Vale bylaws, statute or contract, of a provision by which a special *quorum* is required for deliberation or approval of matters limiting or restricting Vale or its controlling shareholders, or even the inclusion therein, of conditions leading to:
 - i) restrictions on Vale s ability to grow or its technological development;

 - ii) restrictions on Vale s access to new markets, or

 - iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

- d) not observing the following ratios during the term of the contract:
 - Adjusted EBITDA debt ratio less than or equal to 4.5, and

 - Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of debt, as stipulated by BNDES, and within 60 days from the date of written communication.

Table of Contents

In case proceeds granted under this Contract are used for any purpose other than those set forth in the First Clause, BNDES, without prejudice to the terms set forth above in this clause, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 06.16.86.

This contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, controller or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

In the event proceeds granted under the contract are used for a purpose different from that provided for in Clause First, as described above, and in the instances mentioned in Paragraph b above, BNDES may terminate the Contract in advance within five (5) business days from the date of notification to Vale of occurrence of these events, excluding reciprocal power of attorney, made among VALE, TECPAR and TECNOLOGOS until the final debt settlement.

BNDES may terminate the Contract in advance on the day following the date determined by BNDES or by judicial or extrajudicial notification, without the non-financial default having been remedied by Vale or TECPAR.

Applicable interest rate: TJLP+1.2% per year

Nature and reasons for the operation / other relevant information

This is a debt assumption of Companhia Usina Tecpar intended for installation of a pig iron production plant in Pindamonhangaba, SP, using residues from mining slices and other metal debris.

Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of transaction	11/23/2010
Amount (R\$)	R\$ 208,026,000.00
Current balance (R \$) (12/31/2011)	R\$ 223,360,677.00
Amount of related party	Not applicable
Duration	09/15/2029
Loan or other type of debt	YES
Interest rate	1.46% per year
Relationship with the Issuer	Indirect controlling shareholder
Purpose of the contract	Financing for supplementation of resources relative to installation of Estreito Hydroelectric Power Plant (UHE)
Guaranties and insurance	None
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS , the following are certified by BNDES:

- a) reducing Vale's staff without providing training programs and / or replacement programs for workers in other companies;

- b) the existence of a definitive legal judgment on the performance of acts by the Beneficiary consisting of a crime against the environment or an infringement of legislation which deals with combating discrimination based on child labor and forced labor, in accordance with following provision;

- c) inclusion in the bylaws, statute, or contract of Vale or of the other controlling companies, of a provision by which a special *quorum* is required for deliberation or approval of matters limiting or restricting its controlling shareholders, or even the inclusion therein, of conditions leading to:
 - i) restrictions on Vale's ability to grow or its technological development;
 - ii) restrictions on Vale's access to new markets, or
 - iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

- d) give, without prior authorization from BNDES, guaranties of any kind in operations with other creditors without the same quality of guaranties provided to BNDES, with equal priority of payment;

Table of Contents

e) not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

Termination of the contract in advance based on provisions of Paragraph b above will not occur provided the remedy imposed has been fulfilled or while the penalty imposed to the Beneficiary is being fulfilled following the due legal procedure. In the event of any of the situations provided for in Paragraph b above, observing the provisions of above paragraph, BNDES may only declare the expiration in advance of the debt resulting from the Contract within 60 days after giving notice to the Beneficiary.

In case proceeds granted under this Contract are used for any purpose other than general investments for installation of UHE Estreito Hydroelectric Power Plant and its transmission system, BNDES, without prejudice to the terms set forth above in this clause, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 16.06.86.

The contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installation as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, controller or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default. The change in indirect control of Vale, during the term of the Contract, is excluded from the possibility of early expiration by default.

Applicable interest rate: TJLP+1.46% per year

This is financing for supplementation of resources relative to installation of the (UHE) Estreito Hydroelectric Power Plant.

Nature and reasons for the operation / other relevant information

Name of related party
Date of transaction
Amount (R\$)
Current balance (R\$) (12/31/2012)
Amount of related party
Duration
Loan or other type of debt

Banco Nacional de Desenvolvimento Econômico e Social - BNDES
 06/29/2010
 R\$ 135,127,397.00
 R\$ 109,057,867.00
 Not applicable
 07/15/2020
 YES

Interest rate	4.50% per year
Relationship with the Issuer	Indirect controlling shareholder
Purpose of the contract	Financing to purchase machinery and equipment for Project Pier IV, and for installation of a simple mobile waste material crushing, transportation and deposit system of Carajás, in Parauapebas (PA).
Guaranties and insurance	None
Conditions of termination or expiration	<p>BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:</p> <ul style="list-style-type: none">a) reducing Vale's staff without providing training programs and / or replacement programs for workers in other companies b) the existence of a definitive legal judgment on the performance of acts by the Beneficiary consisting of a crime against the environment or an infringement of legislation which deals with combating discrimination based child labor and forced labor, in accordance with following provision; c) inclusion in the bylaws, statute or contract of Vale or of the other controlling companies, of a provision by which a special <i>quorum</i> is required for deliberation or approval of matters limiting or restricting its controlling shareholders, or even the inclusion therein, of conditions leading to:<ul style="list-style-type: none">i) restrictions on Vale's ability to grow or its technological development;ii) restrictions on Vale's access to new markets, oriii) restrictions or loss of ability to pay financial obligations resulting from this operation; d) give, without prior authorization from BNDES, guaranties of any kind in

Table of Contents

operations with other creditors without the same quality of guaranties provided to BNDES, with equal priority of payment;

e) not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case proceeds granted under this Contract are used for any purpose other than general investments for the purchase of machinery and equipment, BNDES, without prejudice to the terms set forth above in this clause, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 06.16.86.

This contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, controller or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

Early Termination of the contract based on the provisions of Paragraph b above will not occur provided the remedy imposed has been fulfilled or while the penalty imposed to the Beneficiary is being fulfilled following the due legal procedure. In the event of any of the situations provided for in Paragraph b above, observing the provisions of above paragraph, BNDES may only terminate the debt in advance arising from the Contract within 60 days after giving notice to the Beneficiary
Available interest rate: 4.5% per year

Nature and reasons for the operation / other relevant information

This is financing to purchase machinery and equipment for Project Pier IV, and for installation of a simple mobile waste material crushing, transportation and deposit system of Carajás, in Parauapebas (PA).

Name of related party
Date of transaction
Amount (R\$)

Banco Nacional de Desenvolvimento Econômico e Social - BNDES
03/31/1997
Not applicable

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Current balance (R\$) (12/31/2012)	Not applicable
Amount of related party	Not applicable
Duration	Determined. Until full execution of its purpose. Contract was changed and consolidated on 06/28/2007.
Loan or other type of debt	No
Interest rate	-
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Regulate the relationship between Vale and BNDES to determine mineral rights for deposits which existence, size and economic validity are undefined in the Carajás mineral province, there being, therefore, no record of the asset's worth when privatized. The Contract stipulates bilateral rules with the purpose of regulating: survey tasks by Vale; the cases and manner for BNDES to provide financial resources to Vale for reimbursement of additional expenses resulting from survey tasks and payment of the respective administration fee; BNDES participatory rights; abandonment or assignment of exploratory targets or mining rights to third parties; payment of the finder's fee owed by BNDES to Vale.
Guaranties and insurance	Not applicable
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant information	-
Name of related party	Banco Nacional de Desenvolvimento Econômico e Social - BNDES
Date of Transaction	11/24/2009
Amount (R\$)	R\$ 170,423,295.62
Current balance (R\$) (12/31/2012)	R\$ 187,067,288.00
Amount of related party	Not applicable
Duration	12/10/2028
Loan or any other debt	YES

Table of Contents

Interest rate	exchange variation + 3.00% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Pr Financing to purchase 15 tugboats
Guaranties and insurance	Vessel mortgage
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:

a) reducing Vale's staff without offering training programs and/or replacement programs for workers in other companies;

b) inclusion in the statutes or bylaws or acts of incorporation by Vale of a mechanism by which a *quorum* is required to determine or approve particular matters restricting or limiting Vale's control by their respective controlling shareholders and also the inclusion in those documents of the mechanism which leads to:

(i) restrictions on Vale's ability to grow or its technological development,

(ii) restrictions on Vale's ability to access new markets, or

(iii) restrictions or loss of ability to pay financial obligations of this operation.

c) inclusion in the bylaws, statutes or contract of Vale or of the other controlling companies, of a provision by which a special *quorum* is required for deliberation or approval of matters limiting or restricting its controlling shareholders, or even the inclusion therein, of conditions leading to:

i) restrictions on Vale's ability to grow or its technological development;

ii) restrictions on Vale's access to new markets, or

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iii) restrictions or loss of ability to pay financial obligations resulting from this operation;

d) give, without prior authorization from BNDES, guaranties of any kind in operations with other creditors without the same quality of guaranties provided to BNDES, with equal priority of payment;

e) not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case proceeds granted under this Contract are used for any purpose other than general investments for purchase of machinery and equipment, BNDES, without prejudice to the terms set forth above in this clause, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 06.16.86.

This contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, controller or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

The change in indirect control of Vale, during the term of the Contract, is excluded from the possibility of early expiration by default.

Exchange rate variation + 3.00% per year.

Nature and reasons for the operation / other relevant information

Operation aims the acquisition of 15 tugboats, where four vessels are to be built by H. Dantas Construções e Reparos Navais LTDA and eleven vessels are to be built by Detroit Brasil LTDA with funds from the Merchant Marine Fund and remitted by BNDES.

Name of related party

Banco Nacional de Desenvolvimento Econômico e Social - BNDES

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Date of transaction
Amount (R\$)

3/25/2011
R\$ 102,536,220.00

316

Table of Contents

Current balance (R\$) (12/312012)	R\$ 88,002,031.00
Amount of related party	Not applicable
Duration	4/15/2021
Loan or other type of debt	Yes
Interest rate	5.5% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Funding for the acquisition of Handling and Transportation System, named 5ª Linha de Embarque to be installed at Terminal Marítimo Ponta da Madeira in São Luís (MA) to serve Pier IV project
Guaranties and insurance	None
Conditions of termination or expiration	BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES: <ul style="list-style-type: none"> a) reducing Vale's staff without offering training programs and/or replacement programs for workers in other companies; b) existence of final decision condemning the Beneficiary for engagement in acts classified as environmental crimes or non-compliance with children's labor and slavery legislation, under the terms below. c) inclusion in the bylaws, statute or contract of Vale or of the other controlling companies, of a provision by which a special <i>quorum</i> is required for deliberation or approval of matters limiting or restricting its controlling shareholders, or even the inclusion therein, of conditions leading to: <ul style="list-style-type: none"> i) restrictions on Vale's ability to grow or its technological development; ii) restrictions on Vale's access to new markets, or iii) restrictions or loss of ability to pay financial obligations resulting from this operation; d) give, without prior authorization from BNDES, guaranties of any kind in operations with other creditors without the same quality of guaranties provided to BNDES, with equal priority of payment;

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e) not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case proceeds granted under this Contract are used for any purpose other than general investments for purchase of machinery and equipment, BNDES, without prejudice to the terms set forth above in this clause, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 06.16.86.

This contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, controller or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

Early termination based on the terms in item b above will not be in effect upon appropriate repair or during compliance with penalty imposed to the Beneficiary, according to due legal process.

In case of any of the circumstances provided for in b, under the terms above, the BNDES may only be entitled to represent early termination of the debt upon sixty (60) day prior written notice to the Beneficiary.

Rate of interest: 5.5 % per year

Funding for the acquisition of Handling and Transportation System, named 5ª Linha de Embarque to be installed at Terminal Marítimo Ponta da Madeira in São Luís (MA) to serve Pier IV project

Nature and reasons for the operation / other relevant information

Name of related party

Date of transaction

Amount (R\$)

Current balance (R\$) (12/312012)

Amount of related party

Duration

Banco Nacional de Desenvolvimento Econômico e Social - BNDES

6/29/2011

R\$ 175,882,585.50.00

R\$ 169,841,913.00

Not applicable

7/15/2020

Table of Contents

Loan or other type of debt	Yes
Interest rate	4.5% per year
Relationship with the Company	Indirect controlling shareholder
Purpose of the contract	Funding for the acquisition of 2,258 railroad wagons to transport iron ore
Guaranties and insurance	None
Conditions of termination or expiration	<p>BNDES may terminate this contract in advance, with the enforceability of the debt and immediate suspension of any disbursement, if in addition to the cases set forth in Articles 39 and 40 of PROVISIONS APPLICABLE TO BNDES CONTRACTS, the following are certified by BNDES:</p> <p>a) reducing Vale's staff without offering training programs and/or replacement programs for workers in other companies;</p> <p>b) existence of final decision condemning the Beneficiary for engagement in acts classified as environmental crimes or non-compliance with children's labor and slavery legislation, under the terms below.</p> <p>c) inclusion in the bylaws, statutes or contract of Vale or of the other controlling companies, of a provision by which a special <i>quorum</i> is required for deliberation or approval of matters limiting or restricting its controlling shareholders, or even the inclusion therein, of conditions leading to:</p> <p>i) restrictions on Vale's ability to grow or its technological development;</p> <p>ii) restrictions on Vale's access to new markets, or</p> <p>iii) restrictions or loss of ability to pay financial obligations resulting from this operation;</p> <p>d) give, without prior authorization from BNDES, guaranties of any kind in operations with other creditors without the same quality of guaranties provided to BNDES, with equal priority of payment;</p>

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e) not observing the following ratios during the term of the contract:

- Adjusted EBITDA debt ratio less than or equal to 4.5, and
- Adjusted EBITDA ratio of Interest Expense greater than or equal to 2.0.

And, in case these ratios are not observed, guarantees an amount equivalent to at least 130% of the debt, as stipulated by BNDES, and within 60 days from the date of written communication.

In case proceeds granted under this Contract are used for any purpose other than general investments for purchase of machinery and equipment, BNDES, without prejudice to the terms set forth above in this clause, will inform the Federal Public Prosecutor, pursuant to the terms of Law No. 7492 of 06.16.86.

This contract will also expire, with the enforceability of the debt and immediate suspension of any disbursement, at the date of installing as a Federal Deputy or Senator or any person remunerated by Vale, or any owner, controller or director of Vale, or any person listed in the prohibitions provided by the Federal Constitution, article 54, paragraphs I and II. There will be no impact on charges of default, provided that the debt payment occurs within five (5) business days as of the date of installing, under risk of, if in default, assuming all charges related to the assumptions set forth above for early expiration by default.

Early termination based on the terms in item b above will not be in effect upon appropriate repair or during compliance with penalty imposed to the Beneficiary, according to due legal process.

In case of any of the circumstances provided for in b, under the terms above, the BNDES may only be entitled to represent early termination of the debt upon sixty (60) day prior written notice to the Beneficiary.

Rate of interest: 4.5 % per year

Funding for the acquisition of 2,258 railroad wagons to transport iron ore

Nature and reasons for the operation / other relevant information

Name of related party
Date of transaction
Amount (R\$)
Current balance (R\$) (12/31/2012)
Amount of related party
Duration
Loan or other type of debt
Interest rate

Banco Nacional de Desenvolvimento Econômico e Social - BNDES
12/17//2007
R\$ 1,407,420,000.00
R\$ 1,684,579,478.00
Not applicable
12/17/2027
Yes
TJLP + 0.8% per year

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Relationship with the Issuer
Purpose of the contract

Indirect Controlling shareholder
Private issuance of debentures for financing of the expansion project of the Norte-

Table of Contents

Guaranties and insurance
Conditions of termination or expiration

Sul Railroad

None

EARLY REDEMPTION OF DEBENTURES

In addition to the terms under Articles 39, 40 and 47(a) of APPLICABLE PROVISIONS, the debenture-holders may declare early maturity of all debentures and require payment by Vale, of the outstanding debt, plus interest and other fees accrued to date of payment, in the event of the following:

- a) Vale non-compliance of any financial obligation related to DEBENTURES not remedied within 10 (ten) business days from the date of maturity;
- b) Bankruptcies requested for Vale made by third parties not resolved by Vale within legal term; application for judicial or extrajudicial recovery made by Vale, or even a declaration of bankruptcy by Vale;
- c) dissolution and liquidation of Vale;
- d) the breach of any non-monetary obligation under this Deed not being remedied within 45 (forty five) days;
- e) declaration of early maturity of any debt of VALE due to breach of contract where the individual amount is equal to or greater than R\$ 125,000,000.00 or whose value, in a period of twelve (12) consecutive months, is equal to or greater than R \$ 1,000,000,000.00;
- f) inclusion in the statutes or bylaws by Vale and FNS of a mechanism by which a *quorum* is required to determine or approve particular matters restricting or limiting Vale s and FNS s control by their respective controlling shareholders and also the inclusion in those documents of the mechanism which leads to restrictions on Vale s and FNS s ability to grow or its technological development, restrictions on Vale s and FNS s ability to access new markets, or restrictions or loss of ability to pay financial obligations of the agreement.
- g) finding that data in the deed provided by VALE, is in any relevant aspect inaccurate or incomplete on the date of provision;
- h) change of corporate purpose of VALE, of FNS or Vale Logística, except when
 - (i) previously approved by debenture holders representing the majority of the outstanding debentures, and (ii) for Vale Logística, if the change aims to include a complementary activity to those currently developed by Vale Logística;
- i) Should VALE approve reduction of the capital stock with reimbursement to shareholders of part of the value of the shares or diminishing their value, when not paid up, to amounts provided, without prior express approval of debenture holders representing the majority of outstanding debentures;
- j) If the effective direct controlling shareholding of Vale or FNS or Vale Logística is modified in any way, unless previously approved by DEBENTURE holders;

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- k) acquisition by FNS or Vale Logística of the shareholding control or interest in other companies, joint ventures or consortia that are activities that complement the regular development of the corporate purpose of FNS, characterizing deviation from the corporate purpose of FNS or Vale Logística, except when previously approved by debenture holders;
- l) in relation to FNS, any merger, consolidation, division, transformation or any other corporate reorganization, whether strictly corporate or related to a disposition of relevant assets, and, in relation to Vale Logística, any incorporation (except when Vale Logística appears as incorporator and provided the incorporated company is not FNS), merger, consolidation, division, transformation or other operation or set of operations under which a significant part of the assets of Vale Logística is transferred to third parties, when significant portion of assets means 50% (fifty per cent) of all assets held by Vale Logística; in relation to VALE, corporate reorganizations that may result in transfer to third parties that are not controlled by Vale, of share ownership issued by FNS, being the object of the exchange in the terms of this DEED, with the observation that this subparagraph will not apply if any of the transactions referred to in this item has been previously approved by debentures holders representing at least 50% plus one of outstanding debentures;
- m) non-compliance by Vale of any provision for interchangeability of the debentures;
- n) constitution, by Vale, of a collateralized guaranty with the other creditors, without the present ISSUANCE being given the same quality of guaranty and equal priority of payment unless previously approved by DEBENTURE holders;
- o) If Vale does not promote and maintain the block on exchange of common shares issued by FNS corresponding to the Percentage of Shares in the permutation;
- p) if Vale does not use the proceeds of this ISSUANCE for FNS's capitalization,

Table of Contents

within 3 (three) business days of redemption of the DEBENTURES; and

q) if VALE fails to promote redemption within the terms and conditions in item 25 in the deed;

o) engage in an initial public offering of shares of any subsidiary of VALE other than Vale Logística that controls FNS and Ferrovia Centro-Atlântica S.A. or transfer the effective direct or indirect control of such companies to any open capital company under control of the ISSUER.

EARLY REDEMPTION

Vale should redeem all of the outstanding debentures within 30 (thirty) days from the occurrence of the following events:

a) termination of the subconcession agreement executed between Valec Engenharia, Construções e Ferrovias S.A. and FNS, due to termination, resolution, settlement, annulment of the subconcession or concession or if the bidding process is deemed to be void; and

b) intervention by the Public Authority responsible for the subconcession or concession for the administration and operation of public transport service Transaction for financing the Norte-Sul railroad expansion project. Three issuances of debentures: 12/17/2007 (1st issuance), 10/15/2009 (2nd issuance), and 6/9/2011 (3rd issuance). The amount reported above is the sum of all three issuances.

Nature and reasons for the operation / other relevant Information

The interest rate is of TJLP+0.8% per year

Name of related party	Banco Bradesco S.A.
Date of transaction	11/19/2010
Amount (R\$)	R\$ 282,878,040.54 (initial balance applied)
Current balance (R\$) (12/31/2011)	R\$ 262,474,922.49
Amount of related party	Not applicable
Duration	Maturities between 02/08/2013 and 09/24/2014
Loan or any other type of debt	NO
Interest rate	-
Relationship with the Company	Bradespar SA, indirect controlling shareholder of Vale, and Banco Bradesco S.A. are under common control.
Purpose of the contract	75CDs issued by Banco Bradesco S.A. and contracted by Vale in the period from 11/19/2010 to 12/28/2012. Financial investment 84.23% of CDI (average open transactions)
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant information	

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Name of related party	Banco Bradesco S.A. Grand Cayman Branch
Date of transaction	12/19/2012
Amount (R\$)	R\$ 114,640,350.00
Current balance (R\$) (12/31/2011)	R\$ 114,659,424.70
Amount of related party	Not applicable
Duration	Expiration date on 01/15/2013 and 03/13/2013
Loan or any other debt	NO
Interest rate	-
Relationship with the Company	Bradespar S.A., Vale indirect controlling shareholder, and Banco Bradesco S.A. are under common control.
Purpose of the contract	2 Investments in Time Deposits contracted by Vale and its controlled companies

Table of Contents

Guaranties and insurance between 12/19/2012 and 12/21/2012.. Financial investment 0.46% per year (average of outstanding operations)
Conditions of termination or expiration None
Nature and reasons for the operation / other relevant information None

Name of related party Bradesco S.A., New York Branch
Date of transaction 09/26/2012
Amount (R\$) R\$ 566,049,500.00
Current balance (R\$) (12/31/2011) R\$ 566,293,925.30
Amount of related party Not applicable
Duration Maturity on 01/02/2013 and 01/30/2013
Loan or any other debt NO
Interest rate -
Relationship with the Company Bradespar S.A., Vale's indirect controlling company, and Banco Bradesco S.A., are under common control.
Purpose of the contract 3 Investments in Time Deposits contracted by Vale and its controlled companies between 09/26/2012 and 12/17/2012. Financial investment 0.44% per year (average of outstanding operations)

Guaranties and insurance None
Conditions of termination or expiration None
Nature and reasons for the operation / other relevant information

Name of related party CBSS - Companhia Brasileira de Soluções e Serviços
Date of transaction 09/02/2008
Amount (R\$) Not applicable
Current balance (R\$) (12/31/2012) R\$ 682,911,967.07
Amount of related party Not applicable
Duration 09/01/2013
Loan or any other debt NO
Interest rate -
Relationship with the Company CBSS is a company controlled by Banco Bradesco S.A. Bradespar S.A., indirect controlling shareholder of Vale, and Banco Bradesco S.A. are under common control.
Purpose of the contract Provision of meal vouchers and food stamps, and services to purchase bus passes for officials of Vale and affiliate companies.

Guaranties and insurance None
Conditions of termination or expiration The Contract may be lawfully terminated at the discretion of the innocent party, by simple written communication, under the following instances:

a) breach of any provision of this instrument or the laws and regulations under which it is subject to, if not remedied within five (5) days from the date of notification receipt sent by the non-defaulting party to the infringing party, or within a reasonable time as agreed by the parties at the time;

b) bankruptcy, or extrajudicial dissolution or judicial or extrajudicial liquidation, requested or approved;

c) occurrence of unforeseeable circumstances or *force majeure*, duly verified, excluding the execution of the Contract for more than 30 days;

d) technical failure, negligence, recklessness, malpractice or bad faith of the CONTRACTED PARTY.

Subject to the satisfaction of its other rights, Vale may, at its sole discretion, terminate this Contract upon prior written notice to the CONTRACTED PARTY, said CONTRACTED PARTY forbearing any rights to claim, indemnification or compensation, for whatever the reason, in the following cases:

a) occurrence of lawsuits brought by the CONTRACTED PARTY, shareholders or companies forming part of the same group against Vale, its subsidiaries, controlling companies and affiliate companies.

b) assignment, and / or transfer of all or part of their obligations to third parties, or of credits under this Contract without prior written authorization of Vale.

Table of Contents

Notwithstanding the above, the Contract may be terminated at any time by the parties by notice of at least 90 (ninety) days.

In the event of termination of this Contract for any reason, VISA Vale CARDS delivered to Vale and the respective current balances of benefits, will be valid for use for a period of ninety (90) calendar days after the effective termination and, after that period, will automatically be canceled.

If any of the Parties are temporarily prevented from fulfilling its obligations in whole or in part as a result of unforeseeable circumstances or *force majeure*, it will report it immediately to the other party and ratify the communication in writing within 10 (ten) days of informing the harmful effects of the event.

In the event of unforeseeable circumstances or *force majeure*, the obligations which the parties remain unable to fulfill will be suspended while the situation lasts. However, if the impediment resulting from *force majeure* or unforeseeable circumstances lasts for more than 30 (thirty) days, or if, from the outcome, delays indefinitely the fulfillment of this Contract, either party may opt for termination, mutually satisfying obligations due until the date of this impediment

Nature and reasons for the operation / other relevant information

-

Name of related party	Banco Bradesco S.A.
Date of transaction	04/12/10
Amount (R\$)	R\$ 822,252,617.27
Current balance (R \$) (12/31/2011)	N/A (corporate card agreement)
Amount of related party	R\$ 822,252,615.27
Duration	06/30/2013
Loan or other type of debt	No
Interest rate	-
Relationship with the Company	Bradespar S.A., indirect controlling shareholder of Vale, and Banco Bradesco S.A., are under common control.
Purpose of the contract	Issuing international corporate credit cards, purchasing cards, and virtual credit cards for air tickets and hotels, intended for purchasing services and items for consumers.
Guaranties and insurance	N/A
Conditions of termination or expiration	Not applicable Contract may be terminated by any party by giving written notice to the other, without there being any right of claim, indemnification or compensation for the benefit of the party receiving the notice of termination, in following cases:

- (i) Petition or declaration of bankruptcy or liquidation, or judicial or extrajudicial recovery by the other party;

(ii) In accordance with paragraph 11.4 of the Contract, occurrence of unforeseeable circumstance or *force majeure* which causes execution of services to be suspended for more than thirty (30) days.

(iii) In the event the fines on the other party reach 10% (ten percent) of the value indicated in paragraph 9.3 of the Contract.

Without failing to satisfy its other rights, Vale may, at their exclusive discretion, terminate this Contract by giving prior and express communication with the CONTRACTED PARTY, at least thirty (30) days in advance, without there being any right by the CONTRACTED PARTY to any claim, indemnification or compensation for whatever reason, in following cases:

(i) Non-compliance of any contractual obligations by the CONTRACTED PARTY for more than thirty (30) days after receipt of the relevant notice by Vale; and

(ii) Assignment, subcontracting, and/or partial or total transfer of the undertaken obligations to third parties, or of the credits arising from this Contract, without prior and express authorization by the CONTRACTING PARTY, except in case of the CONTRACTED PARTY for its affiliates, controlling companies, subsidiaries or for any financial institution that is part of its group of companies.

Without failing to satisfy its other rights, the CONTRACTED PARTY may, at their discretion, terminate this Contract by giving prior and express notice to Vale, with at least 30 (thirty) days in advance, without there being any right by the CONTRACTED PARTY to any claim, indemnification or compensation for whatever reason, in following cases:

Table of Contents

- b) Arrears exceeding 60 (sixty) days;
- c) Delays in providing information which endangers regular fulfillment of the obligations of this Contract and is not remedied within thirty (30) days after receipt of the relevant notice by the CONTRACTED PARTY; and
- d) Non-fulfillment of any of the obligations resulting from the Contract by Vale as a result of which the CONTRACTED PARTY is directly unable to continue regular fulfillment of its contractual obligations, and which is not remedied within 30 (thirty) days after receipt of the relevant notice by the CONTRACTED PARTY.

In the event of termination by any party, a cancellation fine of 10% (ten percent) will be imposed to the party causing termination over the value stated in paragraph 9.3, as updated to variations of IGP-M/FGV (General Market Price Index), from the date of signature of this Contract until the date of actual payment of such fine, without deducting from eventual losses or damages.

Nature and reasons for the operation / other relevant information

Name of related party	Vale Energy S.A.
Amount (R\$)	R\$ 434,593,204.75
Current balance (R \$) (12/31/2012)	0.00
Amount of related party	Not applicable
Duration	12/31/2010
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Power Supply. In 2010, short term power supply agreements were entered into at the market price, to cover demand of Vale units.

Date of transaction	01/01/2010
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant information	-

Name of related party	Vale Energy S.A.
Amount (R\$)	R\$ 149,434,495.80
Current balance (R \$) (12/31/2012)	R\$ 0.00
Amount of related party	Not applicable
Duration	12/31/2011
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Power Supply. In 2008, 12 short-term power supply agreements were entered into at the market price, to cover demand of Vale units.
Date of transaction	01/01/2011
Guaranties and insurance	None

Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant information	
Name of related party	Companhia Portuária Baía de Sepetiba (CPBS)
Date of transaction	01/01/2004
Amount (R\$)	R\$ 402,133,814.50
Current balance (R \$) (12/31/2012)	R\$0.00
Amount of related party	Not applicable
Duration	By 2022. Contract will be automatically renewed for equal periods, provided there is no order to the contrary from any of the parties until 24 months before the date scheduled to close contract.
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Providing operating services and iron ore shipping. Contract purpose is to ensure the use of port infrastructure and loading capacity of iron ore for an annual quantity of

Table of Contents

Guaranties and insurance

Conditions of termination or expiration

11,000,000 t (eleven million tons).

None

The contract may be terminated by operation of law, at the discretion of the innocent party, by simple written communication addressed by the interested party to the other party in any of the following cases:

- Bankruptcy, liquidation agreement, dissolution or liquidation, declared or approved;

- Default of obligation established in any clause, Item or sub item of the contract, not resolved;

- Suspension or termination of services and / or the occurrence of unforeseeable circumstances or *force majeure*, for more than sixty (60) calendar days.

In the event of contract termination, CPBS will provide Vale its whole cargo/ property which is in the TERMINAL and all documents owned by Vale in its possession. After the release of cargo and documents, Vale will pay all expenses and service costs, and perhaps not yet settled, offsetting any claims and arranging the withdrawal of the product within 30 (thirty) days, any failing of which will be deemed to be abandoned pursuant to the terms of the Civil Code.

In the event of default, a letter identifying the breach of contract should be presented to the other party, which will have fifteen (15) days to remedy the default. If after this time the default has not been remedied, the aggrieved party may terminate this contract by operation of law, subject to judicial collection, corresponding to the obligations arising from this;

In the event of suspension of service determined by Vale or contract termination, the following will be owed to CPBS: (i) the amounts pending payment for that portion of services already performed until the date of suspension, (ii) the reimbursement of costs resulting from this suspension or contract termination, (iii) the compensation for any burden caused by Vale to CPBS provided for herein.

- For purposes of this item, CPBS may offset any debts they have with respect to the claims that Vale might have, and use this contract as an extrajudicial execution order for the recovery of any sums due, regarded now as certain net debt in the event of default by Vale. It will be Vale's responsibility to cover all costs that CPBS has to incur due to the collection, judicial or extrajudicial, of the credits that might be owed in relation to the services.

Nature and reasons for the operation / other relevant information

Name of related party

Date of transaction

Ferrovias Centro Atlântica S.A., Vale Fertilizantes, Ultrafertil e Vale S.A.
12/30/2002

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Amount (R\$)	R\$ 91,809,667.15
Current balance (R\$) (12/31/2012)	R\$ 16,910,686.92
Amount of related party	Not applicable
Duration	12/31/2011 5/11/2011 8/15/2011
Loan or other type of debt	NO
Interest rate	-
Relationship with issuer	Subsidiary
Purpose of the contract	Three contracts: <ul style="list-style-type: none">• Provision of railroad transportation services of phosphate rocks, sulfur, and fertilizers. The balance refers to advancement of freight. (date of transaction 12/30/002).• Provision of goods unloading services from ships, stocking in warehouses, loading and weighing cars and trucks and railroad transportation (date of transaction 09/05/2011).• Provision of railroad transportation services (date of transaction 08/16/2010).
Guaranties and insurance	The contracts foresee indemnity in the event of theft, loss or damage of goods and will be treated in specific process and if they are due, they will be paid up to 60 (sixty) days after receiving the request for compensation. The price to be considered will be the one declared in the RECEIPT at the time of the transportation.
Conditions of termination or expiration	This agreement may be terminated by any of the Parties, regardless of notice, communication or judicial summons or extrajudicial communication, in the following events: <ul style="list-style-type: none">a) Petition or declaration of insolvency, bankruptcy or judicial or extrajudicial recovery of the other Party;b) Suspension/revocation of Contractor's concession to explore public cargo railroad transportation service, at any time;c) Non-fulfillment of any of the obligations resulting from the Contract by Vale as a result of which the CONTRACTED PARTY is directly unable to continue regular

Table of Contents

fulfillment of its contractual obligations, and which is not remedied within 30 (thirty) days after receipt of the relevant notice by the CONTRACTED PARTY.- The agreements can be terminated ipso jure in case of not complying with any of its conditions, as well as in the case of bankruptcy or judicial or extrajudicial recovery, under the provisions or Act 11.101, of 02.09.2005, of any of the contracting parties without need of any judicial or extrajudicial notification for this purpose..

This contract may be terminated by either PARTY, without any charge, provided it is done in writing with at least 30 (thirty) days in advance, of the intended termination date. If that is the case, no indemnification or compensation for whatever reason may be paid, not even for loss or damage.

Nature and reasons for the operation / other relevant information

Name of related party	Ferrovias Centro Atlântica S.A
Date of transaction	6/10/2004
Amount (R\$)	Not applicable
Current balance (R\$) (12/31/2012)	Not applicable
Amount of related party	Not applicable
Duration	Undetermined term
Loan or other type of debt	Not applicable
Interest rate	Not applicable
Relationship with issuer	Subsidiary Not applicable
Purpose of the contract	Railroad Infrastructure Shared Use Operational Agreement, as Shared Traffic.
Guaranties and insurance	Not applicable
Conditions of termination or expiration	The Agreement could be terminated by either party, and is automatically ended in 60 days upon receipt of written communication by the terminating party.
Nature and reasons for the operation / other relevant information	The goals of the Operational Agreement are:

(I) Regulate and standardize, upon definition of technical, operational, and administrative procedures, performance of the following activities:

- a) Shared traffic of goods in cargo trains;
- b) Exchange of wagons and locomotives;
- c) Repairs on wagons, locomotives, and permanent roads.

(II) Simplify regulations and procedures related to shared traffic and exchange of moving materials, compliant with the specificities of the Parties, through operational and administration unity at exchange stations, where the presence of moving material in traffic should be minimized, without prejudice to circulation safety conditions.

Name of related party	Ferrovias Centro Atlântica S.A. and e VLI Multimodal S.A.
Date of transaction	12/7/2010
Amount (R \$)	R\$ 299,474,000.00

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Current balance (R \$) (12/31/2012)	R\$ 15,066,000.00
Amount of related party	Could not be assessed.
Duration	5 years and 5 months until termination of subconcession
Loan or other type of debt	No
Interest rate	
Relationship with the Company	Subsidiary
Purpose of the contract	Two contracts:

Providing railway transportation services of various products in containers owned by the CONTRACTED PARTY and/or the CONTRACTING PARTY, by the CONTRACTED PARTY to the CONTRACTING PARTY, along pre-established routes, jointly agreed upon between the parties (Annex 1), exclusively on railroad flatcars.

(transaction date 10/1/2011).- purpose of the contract is the provision of railroad transportation services (date of transaction 12/7/2010)

Guaranties and insurance

Both contracts specify compensations for theft, loss, or damage of the goods that will be handled in a specific process and, in the case of any debt, they will be settled within 60 (sixty) days after receipt of the compensation request. The price to be considered will be that declared in the invoice at the time of carriage.

Conditions of termination or expiration

Contracts may be terminated by operation of law, regardless of notice, communication or judicial summons or extrajudicial communication, in the event of non-observance of its terms, bankruptcy or judicial or extrajudicial recovery of either party.

- Contract may be terminated by any party by giving written notice to the other, without there being any right of claim, indemnification or compensation for the benefit

Table of Contents

of the Party receiving the notice of termination, in following cases::

(i) Non-compliance of any contractual obligations by the other party, except when non-compliance is solved within sixty (60) days after receipt of the relevant notice by the non-default party;

(ii) Petition or declaration of bankruptcy or liquidation, or judicial or extrajudicial recovery by the other party; and

(iii) In the event of an act of God or force majeure regularly proved, that comes to stop the execution of this Contract for more than six (6) months.

Nature and reasons for the operation / other relevant information

Name of related party	Ferrovias Centro Atlântica S/A
Date of transaction	3/15/2011 (Original Agreement) e 3/31/2011 (Amendment)
Amount (R \$)	R\$ 3,300,000.00
Current balance (R \$) (12/31/2012)	None, settled on 06/06/2011
Amount of related party	Not applicable
Duration	FCA paid the Loan, duly adjusted, on 06/06/2011
Loan or other type of debt	Financial Loan
Interest rate	94% of Interbank Deposit Certificate (CDI)
Relationship with the Company	Subsidiary
Purpose of the contract	Financial Loan
Guaranties and insurance	None
Conditions of termination or expiration	Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine incurring on the due balance, including principal and respective financial costs).
Nature and reasons for the operation / other relevant information	FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from March 15, 2011, to the date of effective payment. FCA should notify its intention to make an early payment at least three (3) days in advance.

Name of related party	Ferrovias Centro Atlântica S/A
Date of transaction	3/16/2011 (Original Agreement) e 3/31/2011 (Amendment).
Amount (R \$)	R\$ 5,000,000.00
Current balance (R \$) (12/31/2012)	None, settled on 06/06/2011
Amount of related party	Not applicable
Duration	FCA paid the Loan, duly adjusted, on 06/06/2011.
Loan or other type of debt	Financial Loan
Interest rate	94% of Interbank Deposit Certificate (CDI)
Relationship with the Company	Subsidiary
Purpose of the contract	Financial Loan
Guaranties and insurance	None
Conditions of termination or expiration	Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine, incurring on the due balance, including principal and respective financial costs).

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Nature and reasons for the operation / other relevant information

FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from March 16, 2011, to the date of effective payment. FCA should notify its intention to make an early payment at least three (3) days in advance.

Name of related party

Ferrovias Centro Atlântica S/A

Date of transaction

3/18/2011 (Original Agreement) e 3/31/2011 (Amendment).

Amount (R \$)

R\$ 10,350,000.00

Current balance (R \$) (12/31/2012)

None, settled on 06/06/2011

Amount of related party

Not applicable

Duration

FCA paid the Loan, duly adjusted, on 06/06/2011.

Loan or other type of debt

Financial Loan

Table of Contents

<p>Interest rate</p> <p>Relationship with the Company</p> <p>Purpose of the contract</p> <p>Guaranties and insurance</p> <p>Conditions of termination or expiration</p>	<p>94% of Interbank Deposit Certificate (CDI)</p> <p>Subsidiary</p> <p>Financial Loan</p> <p>None</p> <p>Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine, incurring on the due balance, including principal and respective financial costs).</p>
<p>Nature and reasons for the operation / other relevant information</p>	<p>FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from March 18, 2011, to the date of effective payment. FCA should notify its intention to make an early payment at least three (3) days in advance.</p>
<p>Name of related party</p> <p>Date of transaction</p> <p>Amount (R \$)</p> <p>Current balance (R \$) (12/31/2012)</p> <p>Amount of related party</p> <p>Duration</p> <p>Loan or other type of debt</p> <p>Interest rate</p> <p>Relationship with the Company</p> <p>Purpose of the contract</p> <p>Guaranties and insurance</p> <p>Conditions of termination or expiration</p>	<p>Ferrovias Centro Atlântica S/A</p> <p>3/21/2011 (Original Agreement) e 3/31/2011 (Amendment).</p> <p>R\$ 1,200,000.00</p> <p>None, settled on 06/06/2011</p> <p>Not applicable</p> <p>FCA paid the Loan, duly adjusted, on 06/06/2011.</p> <p>Financial Loan</p> <p>94% of Interbank Deposit Certificate (CDI)</p> <p>Subsidiary</p> <p>Financial Loan</p> <p>None</p> <p><u>Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine, incurring on the due balance, including principal and respective financial costs).</u></p>
<p>Nature and reasons for the operation / other relevant information</p>	<p>FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from March 21, 2011, to the date of effective payment. FCA should notify its intention to make an early payment at least three (3) days in advance.</p>
<p>Name of related party</p> <p>Date of transaction</p> <p>Amount (R \$)</p> <p>Current balance (R \$) (12/31/2012)</p> <p>Amount of related party</p> <p>Duration</p> <p>Loan or other type of debt</p> <p>Interest rate</p> <p>Relationship with the Company</p> <p>Purpose of the contract</p> <p>Guaranties and insurance</p> <p>Conditions of termination or expiration</p>	<p>Ferrovias Centro Atlântica S/A</p> <p>3/21/2011 (Original Agreement) e 3/31/2011 (Amendment).</p> <p>R\$ 1,200,000.00</p> <p>None, settled on 06/06/2011</p> <p>Not applicable</p> <p>FCA paid the Loan, duly adjusted, on 06/06/2011.</p> <p>Financial Loan</p> <p>94% of Interbank Deposit Certificate (CDI)</p> <p>Subsidiary</p> <p>Financial Loan</p> <p>None</p> <p>Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine, incurring on the due balance, including principal and respective financial costs).</p>

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Nature and reasons for the operation / other relevant information

FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from March 21, 2011, to the date of effective payment. FCA should notify its intention to make an early payment at least three (3) days in advance.

Name of related party

Ferrovias Centro Atlântica S/A

Table of Contents

Date of transaction	4/15/2011 (Original Agreement) e 3/31/2011 (Amendment).
Amount (R \$)	R\$ 13,600,000.00
Current balance (R \$) (12/31/2012)	None, settled on 06/06/2011
Amount of related party	Not applicable
Duration	FCA paid the Loan, duly adjusted, on 06/06/2011.
Loan or other type of debt	Financial Loan
Interest rate	94% of Interbank Deposit Certificate (CDI)
Relationship with the Company	Subsidiary
Purpose of the contract	Financial Loan
Guaranties and insurance	None
Conditions of termination or expiration	Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine, incurring on the due balance, including principal and respective financial costs).
Nature and reasons for the operation / other relevant information	FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from April 15, 2011, to the date of effective payment. FCA should notify its intention to make an early payment at least three (3) days in advance.
Name of related party	Ferrovias Centro Atlântica S/A
Date of transaction	4/18/2011 (Original Agreement) e 3/31/2011 (Amendment).
Amount (R \$)	R\$ 2,400,000.00
Current balance (R \$) (12/31/2012)	None, settled on 06/06/2011
Amount of related party	Not applicable
Duration	FCA paid the Loan, duly adjusted, on 06/06/2011.
Loan or other type of debt	Financial Loan
Interest rate	94% of Interbank Deposit Certificate (CDI)
Relationship with the Company	Subsidiary
Purpose of the contract	Financial Loan
Guaranties and insurance	None
Conditions of termination or expiration	Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine, incurring on the due balance, including principal and respective financial costs).
Nature and reasons for the operation / other relevant information	FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from April 18, 2011, to the date of effective payment. FCA should notify its intention to make an early payment at least three (3) days in advance.
Name of related party	Ferrovias Centro Atlântica S/A
Date of transaction	4/25/2011 (Original Agreement) e 3/31/2011 (Amendment).
Amount (R \$)	R\$ 11,000,000.00
Current balance (R \$) (12/31/2012)	None, settled on 06/06/2011
Amount of related party	Not applicable
Duration	FCA paid the Loan, duly adjusted, on 06/06/2011.
Loan or other type of debt	Financial Loan
Interest rate	94% of Interbank Deposit Certificate (CDI)
Relationship with the Company	Subsidiary
Purpose of the contract	Financial Loan
Guaranties and insurance	None
Conditions of termination or expiration	Should FCA fail to comply with any of the obligations in the Agreement, VALE may automatically enforce it by the whole value of the Loan (principal and interest due) added

Nature and reasons for the operation / other relevant information

with contractual fine (1% monthly interest rate, incurring from the default to the date of effective payment and 2% compensatory contractual fine, incurring on the due balance, including principal and respective financial costs).

FCA is entitled to make the early payment of the amount due, as whole or in part, including the principal and interest calculated from April 25, 2011, to the date of effective payment. FCA should notify its intention to make an early

Table of Contents

payment at least three (3) days in advance.

Name of related party	Ferrovias Centro Atlântica S.A. , Companhia Hispano-brasileira de Pelotização HISPANOBRAS, and Vale S.A.
Relationship with the Company	Subsidiaries and affiliates
Date of transaction	01/01/2010
Purpose of the contract	Supply railroad transport service
Business amount	R\$ 4,074,000.00
Current balance	R\$ 38,000.00
Amount of related party	Could not be assessed
Guaranties and insurance	The contract foresees indemnity in the event of theft, loss or damage of goods and will be treated in specific process and if they are due, they will be paid up to 60 (sixty) days after receiving the request for compensation. The price to be considered will be the one declared in the invoice at the time of the transportation.
Duration	5 (five) years.
Conditions of termination or expiration	This agreement may be terminated by any of the parties, by means of a written notification to the other party. The Party by reason of which the Resolution was requested, will have no right to any claim, indemnity or compensation in the following cases: <ul style="list-style-type: none"> (i) If the other party fails to fulfill any of the obligations foreseen by this Contract, except when the failure can be corrected and if the defaulting party corrects it within 5 (five) days after receiving the corresponding written notification; (ii) Petition or declaration of insolvency, bankruptcy or judicial or extrajudicial recovery of the other party (iii) In the event of an act of God or force majeure regularly proved, that comes to stop the execution of this Contract for more than 30 (thirty) days.
Loan or other type of debt	No
Nature and reasons for the operation / other relevant information	-
Rate of interest	-
Name of related party	Ferrovias Centro Atlântica S.A.
Relationship with the Company	Subsidiary
Date of transaction	01/01/2009
Purpose of the contract	This refers to 4 contracts: <ul style="list-style-type: none"> • Supply railroad transport service (date of transaction 01/01/2010). • Provision of Railroad Transportation Service (date of transaction 11/11/2010). • Provision of Railroad Transportation Service (date of transaction 01/01/2009). • Provision of Railroad Transportation Service (date of transaction 4/30/2010).
Business amount	R\$ 33,401,000.00
Current balance	R\$ 32,430,000.00
Amount of related party	Could not be assessed
Guaranties and insurance	The contracts foresee indemnity in the event of theft, loss or damage of goods and will be treated in specific process and if they are due, they will be paid up to 60 (sixty) days after receiving the request for compensation. The price to be considered will be the one

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Duration

declared in the invoice at the time of the transportation
5 (five) years 2 (two) years 4 (four) years 9 (nine) months

Conditions of termination or expiration

These agreements may be terminated by any of the parties, through written notification to the other party. The party by reason of which the Resolution was requested, will have no right to any claim, indemnity or compensation in the following cases:

Table of Contents

(i) If the other party fails to fulfill any of the obligations foreseen by this Contract, except when the failure can be corrected and if the defaulting party corrects it within 5 (five) days after receiving the corresponding written notification;

(ii) Petition or declaration of insolvency, bankruptcy or judicial or extrajudicial recovery of the other Party;

(iii) In the event of an act of God or force majeure regularly proved, that comes to stop the execution of this Contract for more than 90 (ninety) days.

Without prejudice of its other rights, Central Atlantic Railroad can terminate this Contract at its exclusive judgment, through a previous and written notification of 30 (thirty) days given to Central Atlantic Railroad, without Central Atlantic Railroad having the right to any claim, indemnity or compensation whatsoever, in any of the following cases:

(i) If Central Atlantic Railroad fails to fulfill any of the obligations foreseen by this Contract, that have to be corrected within 30 (thirty) days after receiving Vale's written notification for this purpose; and

(ii) assignment, outsourcing and/or partial or total transfer for third parties of assumed obligations, or of the credits deriving from this contract, without previous and written authorization from Vale S.A.

Without prejudice of its other rights, Central Atlantic Railroad can terminate this Contract at its exclusive judgment, through a previous and written notification of 30 (thirty) days given to the Company, without the Company having the right to any claim, indemnity or compensation whatsoever, in any of the following cases:

(i) delay in the payments for a period higher than 90 (ninety) days;

(ii) delay in the availability of information that compromises the regular fulfillment of the obligations assumed in the contract, that have to be corrected within 30 (thirty) days after receiving the Company's notification for this purpose; and

(iii) if Vale S.A. fails to fulfill any of the obligations of this contract and as a consequence the Company cannot continue with the regular fulfillment of its contract obligations, and is not corrected within 30 (thirty) days after receiving the Company's notification for this purpose ..

Loan or other type of debt
Nature and reasons for the operation / other relevant information
Rate of interest

No
 N/A
 N/A

Name of related party
Relationship with the Company
Date of transaction
Purpose of the contract
Business amount

Ferrovía Centro Atlântica S.A. and Log-in Logística Intermodal S.A.
 Subsidiary
 02/01/2009
 Railroad transportation of miscellaneous goods arranged in containers and transportation of empty containers. (nine contracts with the same object)
 R\$ 12,451,209.64

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Current balance (R\$) (12/31/2012)	0.00
Amount of related party	Could not be assessed.
Guaranties and insurance	The contract foresees indemnity in the event of theft, loss or damage of goods and will be treated in specific process and if they are due, they will be paid up to 60 (sixty) days after receiving the request for compensation. The price to be considered will be the one declared in the RECEIPT at the time of the transportation.
Duration	12 (twelve) months
Conditions of termination or expiration	It can be terminated ipso jure in case of not complying with any of its conditions, as well as in the case of bankruptcy or judicial or extrajudicial recovery, under the provisions or Act 11.101, of 02.09.2005, of any of the contracting parties without need of any judicial or extrajudicial notification for this purpose.
Loan or other type of debt	No
Nature and reasons for the operation / other relevant information	-
Rate of interest	-
Name of related party	Ferrovias Centro Atlântica S.A. and Log-in Logística Intermodal S.A.
Date of transaction	3/1/2007

Table of Contents

Amount (R \$)	R\$ 7,00000
Current balance (R \$) (12/31/2011)	R\$ 20,000.00
Amount of related party	Could not be assessed
Duration	10 years relationship with LOG-IN terminated on 10/01/11, considering assignment of the contract from LOG-IN to VLI MULTIMODAL
Loan or other type of debt	No
Rate of interest	-
Relationship with the Company	Subsidiary
Purpose of the contract	Providing railway transportation services of various products in containers owned by the CONTRACTED PARTY and/or the CONTRACTING PARTY, by the CONTRACTED PARTY to the CONTRACTING PARTY, along pre-established routes, jointly agreed upon between the parties (Annex 1), exclusively on railroad flatcars
Guaranties and insurance	Contract specifies compensations for theft, loss, or damage of the goods that will be handled in a specific process and, in the case of any debt, they will be settled within 60 (sixty) days after receipt of the compensation request. The price to be considered will be that declared in the invoice at the time of carriage.
Conditions of termination or expiration	Contract may be terminated by operation of law, regardless of notice, communication or judicial summons or extrajudicial communication, in the event of non-observance of its terms, bankruptcy or judicial or extrajudicial recovery of either party.
Nature and reasons for the operation / other relevant information	-
Name of related party	VLI Multimodal S.A. e Vale S.A.
Date of transaction	07/12/2010
Amount (R \$)	R\$ 30,479,000.00
Current balance (R \$) (12/31/2012)	R\$ 36,317,000.00
Amount of related party	Not applicable
Duration	06/30/2027
Loan or other type of debt	No
Rate of interest	-
Relationship with the Company	Subsidiary
Purpose of the contract	Providing railway transportation services
Guaranties and insurance	Contract specifies compensations for theft, loss, or damage of the goods that will be handled in a specific process and, in the case of any debt, they will be settled within 60 days after receipt of the compensation request. The price to be considered will be that declared in the fiscal note at the time of carriage.
Duration	30/06/2027
Conditions of termination or expiration	Contract may be terminated by any party by giving written notice to the other, without there being any right of claim, indemnification or compensation for the benefit of the party receiving the notice of termination, in following cases:: <ul style="list-style-type: none"> (i) Non-compliance of any contractual obligations by the other Party, except when non-compliance is solved within sixty (60) days after receipt of the relevant notice by the non-default party; (ii) Petition or declaration of bankruptcy or liquidation, or judicial or extrajudicial recovery by the other party; and (iii) In the event of an act of God or force majeure regularly proved, that comes to stop the execution of this Contract for more than six (6) months
Nature and reasons for the operation / other relevant information	-

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Name of related party
Date of transaction
Amount (R \$)

VLI Multimodal S.A.

12/7/2010

Vale S.A will pay VLI Multimodal S.A (in case of exercise of buy-out), prices determined by the residual value booked by VLI Multimodal S.A, considering maintenance and improvements, compliant with the appropriate depreciation.

In case of characterization of one or more assets as revertible assets:

If the price to be paid for the assets will be the indemnity paid by the Granting Authority to Vale S.A, and VLI Multimodal S.A is entitled to receive a value that is not lower than the nominal value originally paid for each asset;

Table of Contents

	<p>II should the indemnity paid by the granting authority be lower than the price paid by Vale S.A to VLI Multimodal S.A, this should return the difference to Vale S.A., under the terms in item i above.</p>
Current balance (R \$) (12/31/2012)	Not applicable
Amount of related party	Not applicable
Duration	Undetermined
Loan or other type of debt	Not applicable
Rate of interest	Not applicable
Relationship with the Company	Subsidiary
Purpose of the contract	Buy-out option subject to future event
Guaranties and insurance	Not applicable
Duration	No fine is provided for in case of termination
Conditions of termination or expiration	Option linked to the effectiveness of the Cargo Railroad Transportation Services and Related Services Agreement entered by and between Vale S.A e VLI Multimodal S.A on 12/7/2010.

VLI Multimodal is the owner of wagons and locomotives (Assets), required for the provision of services under the Transportation Agreement, reason why VLI Multimodal granted the Assets to VALE, in exclusively and irretrievably mode, for the entire effectiveness of the Transportation Agreement.

VALE may acquire part or all the Assets, upon one of the following circumstances:

- a) Determination by the Granting Authority in this sense;
- b) Termination of Concession Agreements for any reason;
- c) Termination of the Transportation Agreement for any reason;
- d) File or order of insolvency, bankruptcy, or judicial or extrajudicial recovery by VLI Multimodal;
- f) Existence of third-party claim, in judicial or administrative procedure, incurring on one or more Assets or creating any encumbrance, that is not cured by VLI Multimodal in twenty days; and
- g) If VLI Multimodal, for any reason, removes one or more Assets from Vale's possession, without its express written agreement.

Nature and reasons for the operation / other relevant information

Name of related party	VLI Multimodal S.A.
Date of transaction	7/1/2012
Amount (R \$)	R\$ 346,500,000.00
Current balance (R \$) (12/31/2012)	Not applicable
Amount of related party	Not applicable
Duration	

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Loan or other type of debt	2/19//2020 for the Terminal de Praia Mole and 12/16/2018 for the Terminal de Produtos Diversos e Graneis Líquidos
Rate of interest	Not applicable
Relationship with the Company	Not applicable
Purpose of the contract	Subsidiary Provision of Cargo Port Transportation Services and Related Services at the Private Terminal of Mixed Use in Praia Mole, at the Terminal de Produtos Diversos and the Terminal de Graneis Líquidos.
Guaranties and insurance	Not applicable
Duration	Non-compliance by the other party with any of the contractual obligations, except if the Infringing Party fails to resolve the non-compliance within sixty (60) days upon receipt of notice by the Non-Infringing Party in this sense.
	 If the other Party files for insolvency, bankruptcy of judicial or extrajudicial recovery;
	 Evidence of government authority act, administration act, act of God or force majeure, that prevents performance of the Agreement for more than one hundred eight (180) days.
	 Change in direct or indirect shareholding control of either Party;
	 termination Fine R\$80,615,659.69.
Conditions of termination or	Provision of services by VALE to VLI Multi to move general cargo to allow VLI

Table of Contents

expiration	Multi customers to be served by port terminals, aiming for efficiency, excellency, and relationship and service improvement offered continuously, with increased volume of traffic at the terminals and consequent improvement of results.
Nature and reasons for the operation / other relevant information	
Name of related party	Ferrovias Norte Sul
Date of transaction	12/20/2007
Amount (R \$)	1,478,205,000.00
Current balance (R \$) (12/31/2012)	Not applicable
Amount of related party	Not applicable
Duration	12/20/2032
Loan or other type of debt	Not applicable
Rate of interest	Not applicable
Relationship with the Company	Subsidiary
Purpose of the contract	Subconcession agreement with lease to manage and explore cargo railroad transportation services, linked to the Specific Railroad Infrastructure Use Operational Agreement executed by VALE S/A and Valec-Engenharia, Construções e Ferrovias S/A.
Guaranties and insurance	Not applicable
Duration	Subconcession should end upon any of the following circumstances: <ul style="list-style-type: none"> a) Termination of contractual term b) Forfeiture c) Termination d) Rescission e) Annulment f) Bankruptcy or termination of the subconcession
Conditions of termination or expiration	Flows related to shared traffic and rite of passage: value should consider limitations of fees approved by the granting authority, including ancillary operations; <p>Transportation of empty wagon or locomotive, as goods: rite of passage should be based on the tare weight inscribed in the wagon or informed for the locomotive;</p> <p>Cargo transportation in shared traffic: value should be previously negotiated by the parties.</p>
Nature and reasons for the operation / other relevant information	
Name of related party	Ferrovias Norte Sul S.A.(through Estrada de Ferro Carajás EFC)
Date of transaction	12/19/2008
Amount (R \$)	R\$ 24,181,000.00
Current balance (R \$) (12/31/2012)	R\$ 358,000.00
Amount of related party	None

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Duration	30 (thirty) years or termination of the subconcession
Loan or other type of debt	No
Rate of interest	-
Relationship with the Company	Subsidiary
Purpose of the contract	Specific Contractual Transaction, with the objective (i) to carry out specific transactions relating to mutual traffic and/or the right of passage; (ii) to refine global operational efficiency for railroad transportation and better conditions in general for passengers, in order to allow for increased railroad transportation between parties; (iii) to maintain a heightened relationship between parties, in order to increase service of the demands of transportation of cargo in its areas of influence, producing economic development in the regions it attends, all in accordance with our contracts, as well as in observance of the applicable technical norms and regulations; and (iv) to consider the junction between the two railroads and the Açailândia station, in the state of Maranhão, operated by Vale S.A., where we will make the exchange between railroad stations with dispatched cargo in mutual traffic.
Guaranties and insurance	None
Conditions of termination or	Contract may be terminated by giving notice, communication or judicial

Table of Contents

expiration summons or extrajudicial communication within 30 (thirty) days, only in the event of non-compliance by either party with any clause, provided it is not remedied within 90 (ninety) days by the non-complying party, after receiving prior written notice identifying the non-compliance, with acknowledgement of receipt.

Nature and reasons for the operation / other relevant information

-

Name of related party Vale Manganês S.A. e Ferrovia Centro Atlântica S.A.
Date of transaction 9/1/2008
Amount (R \$) R\$ 52,343,509.14
Current balance (R \$) (12/31/2012) R\$ 48,123,615.85
Amount of related party None
Duration 12/31/2014
Loan or other type of debt NO
Rate of interest -
Relationship with the Company Subsidiary
Purpose of the contract Refers to two contracts:

- Handling of manganese ore dispatched from and to Vale Manganês by Vitória a Minas Railroad and Centro-Atlântica Railway (date of transaction 05/01/2010).

- Handling of manganese ore dispatched from Carajás-PA to São Luis-MA for Vale Manganês, and shipping at Ponta da Madeira terminal. (date of transaction 9/1/2008).

Guaranties and insurance

None

Conditions of termination or expiration

This contract may be terminated by either party without any charge, provided it is done in writing with at least 60 (sixty) days in advance of the intended termination date. If that is the case, no indemnity or compensation whatsoever may be paid, not even for loss or damage.

Nature and reasons for the operation / other relevant information

-

Name of related party Docepar S.A. (DOCEPAR)
Date of transaction 1/2/2006
Amount (R\$) R\$ 49,030,201.87
Current balance (R \$) (12/31/2012) R\$ 856,262.27
Amount of related party Not applicable
Duration 6/28/2013
Loan or other type of debt Yes
Rate of interest 94% of CDI
Relationship with the Company Subsidiary
Purpose of the contract Loan
Guaranties and insurance None
Conditions of termination or expiration **PREPAYMENT**

DOCEPAR may prepay the amount, in whole or in part, including principal and interest calculated from January 2 (two), 2006 until the date of actual payment.

DOCEPAR should notify its intention to make the prepayment at least 3 (three) days in advance.

EARLY TERMINATION

If DOCEPAR fails to meet any of its obligations, Vale may automatically assume the debt for the total value (principal and interest) plus the contractual penalty provided for in the contract, the present serving as an extrajudicial execution order, in accordance with Article 585 of the Code of Civil Procedure.

Interest rate charged: 94% CDI

Nature and reasons for the operation / other relevant information

Inter-company loan to cover cash needs. Vale is debtor in this transaction.

Name of related party	Vale Energia Limpa S.A. - VEL
Date of transaction	07/13/2012
Amount (R \$)	R\$ 1,000,000.00
Current balance (R \$) (12/31/2012)	R\$ 13,822,774.95

Table of Contents

Amount of related party	Not applicable
Duration	12/15/2020
Loan or other type of debt	YES
Rate of interest	173.25% CDI (average)
Corporate relation	subsidiary
Purpose of the contract	Loan
Guaranties and insurance	None
Conditions of termination or expiration	PREPAYMENT

Vale Energia Limpa (VEL) may prepay the amount, in whole or in part, including principal and interest calculated from the date of the disbursement until the date of actual payment.

VEL should notify its intention to make the prepayment at least 3 (three) days in advance.

EARLY TERMINATION

If VEL fails to meet any of its obligations, Vale may automatically assume the debt for the total value (principal and interest) plus the contractual penalty provided for in the contract, in the following events:

(a) VEL does not make the payments on the deadlines specified in the agreement of a period longer than 5 (five) commercial days starting from the date the payment should have been made;

(b) Vales Áustria Holdings GmbH and Clean Fuel (South American) S.A. will lose 51% and 49% of the total shares issued by VEL, directly or indirectly;

(c) VEL fails to comply with any of the commitments made in the agreement;

(d) There are any material changes in the VEL's business or financial situation, as per Vale's exclusive opinion;

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Nature and reasons for the operation / other relevant information	(e) VEL's judicial or extrajudicial recovery, bankruptcy or civil insolvency is ordered, as long as their effects are not suspended for 60 (sixty) days. Applicable interest rate: 173.25% CDI (average rate) It is a loan between companies to help with cash flow. The Company is a creditor in this operation
Name of related party	CVRD Overseas Ltd.
Date of transaction	8/15/2000
Amount (R\$)	Not applicable
Current balance (R\$) (12/31/2012)	0.00
Amount of related party	Not applicable
Duration	Undetermined
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Purchase of iron ore agglomerated and non-agglomerated products. In accordance with Vale securitization program started in 2000, it was established with the Trustee that sales for securitized customers over the term of the program would be made through CVRD Overseas
Guaranties and insurance	None
Conditions of termination or expiration	None. Vale securitization program, started in 2000, specifying that sales for securitized customers were to be made by CVRD Overseas, was finished in January 2010.

Table of Contents

Nature and reasons for the operation / other relevant information	-
Name of related party	Vale International S.A.
Date of transaction	01/13/2006
Amount (R\$)	R\$ 33,139,439,500.00 (equivalent to approximately USD 16,217,000,000.00)
Current balance (R\$) (12/31/2012)	R\$ 33,320,619,783.00 (equivalent to USD 16,305,661,748.00)
Amount of related party	Not applicable
Duration	12/21/2026
Loan or other type of debt	YES
Interest rate	2.69% per year (average rate)
Relationship with the Company	Subsidiary
Purpose of the contract	Export prepayment
Guaranties and insurance	None
Conditions of termination or expiration	Prepayment - The exporter may, by notice in writing at least two (2) business days for the Importer, elect to prepay any amount, in whole or in part, with accrued interest.
Nature and reasons for the operation / other relevant information	This is an export prepayment to cover cash needs. The Company is the debtor in this transaction.
Name of related party	Vale International S.A.
Date of transaction	01/31/2005
Amount (R\$)	R\$ 72,588,439.00 (equivalent to approximately USD 35,521,624.00)
Existing balance (R\$) (12/31/2012)	R\$ 84,368,343.00 (equivalent to approximately USD 41,286,196.00)
Amount of related party	Not applicable
Duration	04/29/2014
Loan or other type of debt	YES
Interest rate	3.37% per year (average rate)
Relationship with the Company	Subsidiary
Purpose of the contract	Import financing
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant information	This is an import financing for the optimization of the import area (streamlining import processes, with reduction of the number of exchange contracts).
Name of related party	Vale International S.A.
Date of transaction	03/01/2006
Amount (R\$)	50,516,624,276.79
Existing balance (R\$) (12/31/2012)	0.00
Amount of related party	Not applicable
Duration	12/31/2016
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Sale of agglomerated and non-agglomerated iron ore, manganese, copper concentrate, copper cathode, and nickel products. The Termination clause was prepared under English jurisdiction, and for this reason an analogy has been made

Table of Contents

Guaranties and insurance	with the wording of Brazilian legal institutions (which are different from English legal institutions).
Conditions of termination or expiration	None The contract may be terminated immediately by written notification to the other party, if: (I) the other party commits a serious breach of any obligation under this contract if such breach is not remedied within 7 (seven) business days following the warning about the violation requesting its remedying; (II) an actual charge is made on the property of the other party or a judicial administrator or administrator is appointed to manage the property of the other party; (III) the other party enters into a contract with its creditors or has an administrator or other person who takes the decisions, including the decision to file documents in a Court of Justice declaring the intention to appoint an administrator to substitute the administrator in office; (IV) the other party declares liquidation (except in cases of mergers or restructurings, in which case the new company will assume the obligations imposed by the other party in relation to the current contract); (V) any occurrence of any event similar to events previously listed in accordance with the laws of any jurisdiction; or (VI) the other party stops or threatens to stop commercial/business transactions. Notwithstanding the above assumptions, the contract may be terminated, with agreement from both parties, at any time.
Nature and reasons for the operation / other relevant information	

Name of related party	Baovale Mineração S.A.
Date of transaction	10/10/2001
Amount (R\$)	R\$ 42,161,285.64
Current balance (R\$) (12/31/2012)	R\$ 28,981,000.00
Amount of related party	Not applicable
Duration	20 years (by 10/18/2021)
Loan or other type of debt	No
Relationship with the Company	Subsidiary, joint control
Purpose of the contract	Leasing
Guaranties and insurance	None
Conditions of termination or expiration	This contract may be terminated:

- due to act of God or force majeure under the terms in article 1058 and sole paragraph in the Civil Code;
- upon mutual agreement;
- upon termination by either party due to non-compliance by the other party;
- due to bankruptcy or composition with creditors by either party.

Nature and reasons for the operation / other relevant information

Name of related party	Companhia Hispano Brasileira de Pelotização - Hispanobras
Date of transaction	05/16/2012
Amount (R\$)	R\$ 52,987,040.83
Current balance (R\$) (12/31/2012)	R\$ 21,339,999.42
Amount of related party	Not applicable
Duration	Three years with automatic renewal

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Loan or other type of debt
Interest rate
Relationship with the Company
Purpose of the contract

NO
-
Affiliate
Until 06/30/2012

Supply of pellet feed (Vale for Hispanobras)

Pellet acquisition contract (Hispanobras for Vale)

Plant operation contract (Vale operates Hispanobras plant)

In accordance with the shareholders' contract between Vale and ArcelorMittal Spain, Vale operates Hispanobras pellet plant, supplies pellet feed, and purchases part of the pellets produced in that plant.

Starting on 07/01/2012

Asset leasing contract. Vale leased Hispanobras' pellet plant for one fixed payment plus another payment variable with assets performance
None

Guaranties and insurance

Table of Contents

Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant Information	Any of the parties may chose to terminate the Lease after the first three years, as long as the other party receives a written notice one year before the end of the referred period.
Name of related party	Companhia Nipo-Brasileira de Pelotização - Nibrasco
Date of transaction	04/30/2008
Amount (R\$)	R\$ 178,698,982.81
Current balance (R\$) (12/31/2012)	R\$ 353,419.000.00
Amount of related party	Not applicable
Duration	Until 2016
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Affiliate
Purpose of the contract	Contract for leasing assets. Vale leased (two) 2 pellet plants of Nibrasco, upon payment of a fixed portion and variable portion depending on the performance of the assets. Contract term is for three (3) years, renewable successively for the same period.
Guaranties and insurance	None
Conditions of termination or expiration	Parties must send written notice to the other party to terminate the lease.
Nature and reasons for the operation / other relevant Information	
Name of related party	Companhia Italo-Brasileira de Pelotização - Itabrasco
Date of transaction	09/30/2008
Amount (R\$)	R\$ 69,003,731.02
Current balance (R\$) (12/31/2011)	R\$ 0.00
Amount of related party	Not applicable
Duration	Until 2018
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Affiliate
Purpose of the contract	Contract for leasing assets. Vale leased the pellet plant of Itabrasco, upon payment of a fixed portion and variable portion depending on the performance of the assets.
Guaranties and insurance	None
Conditions of termination or expiration	Either party will have the right to terminate the lease after the initial period of three years, provided that they send to the other party written notice at least a year before the lease expires.
Nature and reasons for the operation / other relevant Information	The parties may also, during the eighth year, review the conditions agreed in this contract in order to decide whether or not this will be renewed.
Name of related party	Companhia Coreano Brasileira de Pelotização - Kobrasco
Date of transaction	05/06/2008
Amount (R\$)	R\$ 171,060,353.85
Current balance (R\$) (12/31/2012)	R\$ 67,588,000.00
Amount of related party	Not applicable
Duration	Until 2013 (5 year automatic renewal already confirmed starting 05/06/2013)
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Affiliate
Purpose of the contract	

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Contract for leasing assets. Vale leased the Kobrasco pellet plant, upon payment of a fixed portion and variable portion depending on the performance of the assets. Term of the contract is 5 (five) years, renewable successively for an equal period.

Guaranties and insurance

None

Conditions of termination or expiration

Written notice to the other party at least one year in advance of its termination

Nature and reasons for the operation / other relevant Information

Name of related party

Samarco Mineração S.A.

Date of transaction

04/12/2004

Amount (R\$)

R\$ 722,845,168.00

Current balance (R\$) (12/31/2012)

R\$ 369,446,000.00

Amount of related party

Not applicable

Table of Contents

Duration	1/1/2027
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Affiliate
Purpose of the contract	Regulate commercial relations between the parties regarding sale of iron ore produced by Vale for Samarco. (total of three contracts)
Guaranties and insurance	There is insurance against damages, in the area in control of the purchaser, related to the materials and/or equipment belonging to the vendor, as provided for by the PURCHASER.
Conditions of termination or expiration	<p>The contract may be terminated by operation of law, by the innocent party, without prior notice, in any of the following cases:</p> <p>a) Default of any term, condition or provision of this contract or its exhibits, provided that the breach is not remedied within thirty (30) calendar days of the written notices provided for above. In such case, the party at fault must pay the innocent party a contractual fine of 10% (ten percent) of the annual amount in which the event occurs, which will be deducted from the losses and damages. The higher value holds, in any case, over the lower, at the risk of refund;</p> <p>b) Bankruptcy, judicial or extrajudicial recovery, dissolution or, judicial or extrajudicial liquidation, declared or approved;</p> <p>c) Suspension by the competent authorities of the implementation of the Services for more than thirty (30) days;</p> <p>d) Suspension of service due to the occurrence of <i>force majeure</i> or unforeseeable circumstances as noted in the fourteenth clause for a period exceeding ninety (90) days, in which case the VENDOR has the right to receive from the PURCHASER the supplies already provided.</p>
Nature and Reasons for the operation / other Relevant Information	
Name of related party	MRS Logística S.A.
Date of transaction	01/01/2011
Amount (R\$)	R\$ 1,331,287,942.55
Current balance (R\$) (12/31/2011)	R\$ 4,505,000.00
Amount of related party	Not applicable
Duration	01/01/2011 to 11/30/2026
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Affiliate
Purpose of the contract	Regulate the provision by MRS to VALE, of rail transportation services of iron ore loading from iron ore terminals named Terminal do Andaime, Terminal do Córrego do Feijão, Terminal Água Santa, Terminal Olhos D'Água, Terminal Sarzedo Novo TCS (Terminal de Carga de Sarzedo), Terminal Sarzedo, Terminal Alberto Flores, Terminal Souza Noschese, Terminal de Juiz de Fora, located in the state of Minas Gerais, and certain other terminals for shipping - while transportation conditions will be agreed upon at the time to unloading terminals Guaíba, CPBS, CSA, and Patrag, the first three in the State of Rio de Janeiro and the last one in the State of Minas Gerais (Ouro Branco).
Guaranties and insurance	During the duration of the contract, Vale will guarantee MRS the minimum payment of 80% (eighty per cent) of MRS Scheduled Annual Revenue, based on annually adjusted volumes.

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MRS must contract the Optional Liability Insurance for personal injury and damage caused to third parties, and is responsible for payment of the corresponding values of the policies, copies of which should be sent to Vale with the general terms of the respective insurance; the same applies for insurances and attributions under Vale responsibility.

Table of Contents

Conditions of termination or expiration	The contract may be terminated by operation of law, by written notice to the other party, without prior notice, in any of the following cases: a) default, by either party of any term, condition or provision of this contract, provided that the breach is not remedied within sixty (60) calendar days of the notices provided for above. b) bankruptcy, judicial or extrajudicial recovery, dissolution or, judicial or extrajudicial liquidation, declared or approved; c) suspension by the competent authorities of the implementation of the Services; d) If MRS suspends the Service, in whole or in part, without express prior notice or written consent by Vale, for more than ten (10) consecutive days or 30 (thirty) alternating days; e) Suspension of service due to the occurrence of <i>force majeure</i> or unforeseeable circumstances for a period exceeding sixty (60) days; f) If a party assigns this contract without prior knowledge and written consent of the other party, compliant with clause eighteen.
Nature and reasons for the operation / other relevant Information	
Name of related party	Minerações Brasileiras Reunidas S.A. - MBR
Date of transaction	06/01/2007
Amount (R\$)	Annual payments up to R\$ 792,000,000.00
Current balance (R\$) (12/31/2012)	R\$ 0.00
Amount of related party	Cannot be assessed
Duration	Until 05.31.2037
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Lease of facilities
Guaranties and insurance	-
Conditions of termination or expiration	Through dissolution or if the contract of usufruct of shares of Empreendimentos Brasileiros de Minerações S.A. EBM ends
Nature and reasons for the operation / other relevant Information	-
Name of related party	Vale Mina do Azul S.A.
Date of transaction	8/1/2010
Amount (R \$)	31,662,064.43
Current balance (R \$) (12/31/2012)	R\$ 0.00
Amount of related party	None
Duration	01/01/2012
Loan or other type of debt	NO
Rate of interest	-
Relationship with the Company	Subsidiary
Purpose of the contract	SERV.TEC-TECHNICAL SUPPORT/ASSISTED OPERATION: mineral loading service, laboratory services, quality control services, process development service, support service in the use of core, occupational health support service, safety at <u>work support service, and engineering consulting service</u> ;
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant information	-
Name of related party	Vale Mina do Azul S.A.

Date of transaction

8/1/2011

340

Table of Contents

Amount (R \$)	R\$ 121,304,737.55
Current balance (R \$) (12/31/2012)	R\$ 11,120,453.94
Amount of related party	None
Duration	05/30/2013
Loan or other type of debt	NO
Rate of interest	-
Relationship with the Company	Subsidiary
Purpose of the contract	Handling of manganese ore dispatched from Carajás-PA to São Luis-MA, and shipping at Ponta da Madeira terminal.
Guaranties and insurance	None
Conditions of termination or expiration	This contract may be terminated by either party, without any charge, provided it is done in writing with at least 60 (sixty) days in advance of the intended termination date. If that is the case, no indemnity or compensation whatsoever may be paid, not even for loss or damage.
Nature and reasons for the operation / other relevant Information	
Name of related party	Vale Manganês S.A.
Date of transaction	01/01/2006
Amount (R\$)	2,901,223.99
Current balance (R\$) (12/31/2012)	R\$ 648,619.27
Amount of related party	None
Duration	12/31/2012
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Supply of hematite (HTFA), raw material necessary for industrial operation in manufacture of iron alloys.
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant Information	
Name of related party	Vale Manganês S.A. and Vale Energia S.A.
Date of transaction	11/18/2009
Amount (R\$)	R\$ 918,000.00
Current balance (R\$) (12/31/2012)	R\$ 704,085.30
Amount of related party	None
Duration	Until 2025
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Agency services (power supply)
Guaranties and insurance	None
Conditions of termination or expiration	The contract may be terminated by either party, without cause, with thirty (30) days prior notice. If such is the case, no compensation may be owed by either party. The contract may also be terminated by either party upon notice given to the other in the event of bankruptcy, recovery, or judicial or extrajudicial liquidation of the other party, or non-compliance by the other party of any obligation arising from the contract.
Nature and reasons for the operation / other relevant Information	-
Name of related party	Vale Manganês S.A.

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Date of transaction
Amount (R\$)

9/1/2008
R\$ 179,236,548.75

341

Table of Contents

Current balance (R\$) (12/31/2012)	R\$ 0.00
Amount of related party	None
Duration	12/31/2011. The amount was estimated based on the volume scheduled for the term of the contract.
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Handling of manganese ore dispatched from Carajás-PA to São Luis-MA and shipping at Ponta da Madeira terminal.
Guaranties and insurance	None
Conditions of termination or expiration	This contract may be terminated by either party, without any charge, provided it is done in writing with at least 60 (sixty) days in advance, of the intended termination date. If that is the case, no indemnification or compensation for whatever reason may be paid, not even for loss or damage.
Nature and reasons for the operation / other relevant Information	.
Name of related party	Vale Manganês S.A.
Amount (R\$)	R\$ 2,880,000.00
Current balance (R\$) (12/31/2012)	R\$ 1,967,495.32
Amount of related party	-
Duration	05/25/2012
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Power supply
Date of transaction	8/2/2010
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant Information	-
Name of related party	Vale Manganês S.A. and PASA Plano de Assistência à Saúde do Aposentado da Vale
Amount (R\$)	R\$ 3,992,176.70
Current balance (R\$) (12/31/2012)	R\$ 2,581,606.15
Amount of related party	-
Duration	5/18/2014
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Management and Complementary Medical Services (AMS)
Date of transaction	4/12/2010
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant Information	-
Name of related party	Vale Manganês S.A.
Amount (R\$)	R\$ 20,757,456.00
Current balance (R\$) (12/31/2012)	R\$ 20,757,456.00
Amount of related party	-
Duration	6/16/2012
Loan or other type of debt	NO

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Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Management Services and Additional Medical Care (AMS)

Table of Contents

Date of transaction	5/25/2010
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant Information	-
Name of related party	Vale Manganês S.A
Amount (R\$)	R\$ 13,459,760.00
Current balance (R\$) (12/31/2012)	R\$ 7,859,855.77
Amount of related party	-
Duration	6/16/2012
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Employees assigned Vale S.A. to Vale Manganês S.A.
Date of transaction	5/26/2010
Guaranties and insurance	None
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant Information	-
Name of related party	Vale Canada Limited
Relationship with the Company	Controlling Shareholders
Date of transaction	09/21/2010
Purpose of the contract	Contract to regulate cooperation between the parties for development of support processes by Vale S.A. and to share the costs relative to such processes with the companies of Vale Group.
Amount (R\$)	R\$ 17,362,000.00
Current balance (R\$) (12/31/2012)	R\$ 0.00
Amount of related party	N/A
Guaranties and insurance	None
Duration	12/31/2011. The amount reported above corresponds to the total value paid by the Vale Canada Limited to the Company for the services rendered during the fiscal year ended on 12/31/2011.
Conditions of termination or expiration	This contract could have been terminated by operation of law if either party fails to fulfill its obligations, provided that a written notice had been given by the non-defaulting party to the party in default, and provided that the non-compliance had not been remedied within 15 (fifteen) days.
Loan or other type of debt	No
Interest rate	
Other relevant Information	
Name of related party	Salobo Metais S.A.
Date of transaction	07/01/2010
Amount (R\$)	R\$ 3,933,206.30
Current balance (R\$) (12/31/2012)	R\$ 0.00
Amount of related party	Not applicable
Duration	12/15/2011 (contract terminated)
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	Subsidiary
Purpose of the contract	Stripping service by Vale to SALOBO for opening Salobo mine.
Guaranties and insurance	None

Conditions of termination or expiration

Contract terminated on 12/15/2011. Prior to termination, the contract could be terminated by either party by written notice to the other, there being no right to any claim, indemnification or compensation, for whatever the reason.

Nature and reasons for the operation / other relevant information

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Table of Contents

Name of related party	MRC Serviços Ferroviários CBRJ-AL Ltda.
Date of transaction	01/01/2011
Amount (R\$)	R\$ 14,611,085.07
Current balance (R\$) (12/31/2011)	Not applicable
Amount of related party	Not applicable
Duration	12/31/2016
Loan or other type of debt	NO
Interest rate	-
Relationship with the Company	A company member of the Mitsui group, Vale controlling group
Purpose of the contract	Lease of 300 new HPE type wagons
Guaranties and insurance	None
Conditions of termination or expiration	Provided that (i) no breach has occurred or persists at the time of the notice foreseen in item (ii) below, and at the time of return of all wagons as specified under para. (iii) below; (ii) written notice has been given to MRC by the LESSEES 180 (one-hundred and eighty) days in advance to inform on their intention to terminate the Contract; and (iii) all the wagons have been returned by the LESSEES as provided for in Clause 20, the LESSEES will have the right, upon payment of the consideration provided for in Clause 23.2 of the Contract, to irrevocably terminate the Contract with respect to all (and not less than all) wagons.

If the LESSEES terminate the Contract pursuant to Clause 23.1, they will pay MRC:

- i) a fine per leased wagon for the LESSEES for a value in Reais equivalent to the remaining balance in the Contract; and
- ii) a compensation for any other costs, fines, expenses, damages or disbursement incurred as a result of termination of the contract and other operational documents.

Above mentioned value, including that resulting from the established formula in Clause 23.2 of the contract, will be corrected based on the IGP-M (General Market Price Index) within the least time slot allowed by the applicable law.

Except in the event of non-compliance by MRC, the values mentioned in clause 23 of the Contract will be owed by the LESSEES to MRC, regardless of the reason which caused termination by the LESSEES.

Nature and reasons for the operation / other relevant Information

Name of related party	Mitsui & Co. Ltd. and Vale Fertilizers
Date of transaction	01/01/2011
Amount (R\$)	R\$ 60,967,073.14
Current balance (R\$) (12/31/2012)	R\$ 56,550,515.88
Amount of related party	Not applicable
Duration	12/31/2011
Loan or other type of debt	NO
Interest rate	-
Relationship with the Issuer	Controlling group of Vale and subsidiary.
Purpose of the contract	Guarantee the operational continuation of the manufacturing plants with supply of sulfur.
Guarantees and insurances	Not applicable
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	.

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Name of related party	Ultrafertil S.A. and Vale Fertilizantes
Date of transaction	01/01/2011
Amount (R\$) (R\$)	R\$ 277,525,905.35
Current balance (R\$) (12/31/2012)	R\$ 0.00
Amount of related party	Not applicable
Duration	One year

Table of Contents

Loan or other type of debt	NO
Rate of interest	-
Relationship with the Issuer	Subsidiary of Vale Fertilizantes
Purpose of the contract	Sale of supplies for fertilizers
Guarantees and insurances	None
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	-
Name of related party	Ultrafertil S.A. and Vale Fertilizantes
Date of transaction	01/01/2011
Amount (R\$)	R\$503,252.69
Current balance (R\$) (12/31/2012)	R\$ 0.00
Amount of related party	Not applicable
Duration	One year
Loan or other type of debt	Yes
Rate of interest	0.00
Relationship with the Issuer	Subsidiary of Vale Fertilizantes
Purpose of the contract	Loan of Ultrafertil of supplies for fertilizers (with incidental taxes)
Guarantees and insurances	None
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	It is a loan of supplies for manufacturing of fertilizers.
Name of related party	Ultrafertil S.A. and Vale Fertilizantes
Date of transaction	01/01/2011
Amount (R\$)	R\$ 366,146,181.90
Current balance (R\$) (12/31/2012)	R\$0.00
Amount of related party	Not applicable
Duration	1 year
Loan or other type of debt	No
Rate of interest	-
Relationship with the Issuer	Subsidiary of Vale Fertilizantes
Purpose of the contract	Acquisition of supplies for fertilizers
Guarantees and insurances	None
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	-
Name of related party	Ultrafertil S.A. and Vale Fertilizantes
Date of transaction	01/01/2011
Amount (R\$)	R\$ 7,540,985.97
Current balance (R\$) (12/31/2012)	R\$ 0.00
Amount of related party	Not applicable
Duration	1 year
Loan or other type of debt	Yes
Rate of interest	0.00

Table of Contents

Relationship with the Issuer	Subsidiary of Vale Fertilizantes
Purpose of the contract	Loan of Ultrafertil of supplies for fertilizers (with incidental taxes)
Guarantees and insurances	None
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	It is a loan of supplies for manufacturing of fertilizers.

Name of related party	Vale Fertilizantes S.A.
Date of transaction	01/01/2011
Amount (R\$)	R\$ 1,888,000.00
Current balance (R\$)	0.00
Amount of related party	Not applicable
Duration	1 year
Loan or other type of debt	No
Rate of interest	0.00
Relationship with the Issuer	Subsidiary
Purpose of the contract	Sale of logistic services
Guarantees and insurances	None
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	-

Name of related party	Vale Energia
Date of transaction	01/01/2012
Amount (R\$)	R\$ 407,890,961.82
Current balance (R\$)	0.00
Amount of related party	Not applicable
Duration	1 year
Loan or other type of debt	No
Rate of interest	0.00
Relationship with the Issuer	Subsidiary of Vale S.A.
Purpose of the contract	Purchase of power
Guarantees and insurances	None
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	

Name of related party	Vale Cubatão Fertilizantes
Date of transaction	01/01/2011
Amount (R\$)	R\$ 3,335,000.00
Current balance (R\$) (12/31/2011)	R\$ 0.00
Amount of related party	Not applicable
Duration	1 year
Loan or other type of debt	No

Table of Contents

Rate of interest	0.00
Relationship with the Issuer	Subsidiary of Vale S.A.
Purpose of the contract	Acquisition of supplies for fertilizers
Guarantees and insurances	None
Conditions of termination or expiration	Not applicable
Nature and reasons for the operation / other relevant Information	-

Name of related party	Sociedad Contractual Minera Tres Valles
Date of transaction	08/29/2011
Amount (R\$)	R\$ 64,456,000.00
Current balance (R\$) (12/31/2011)	R\$ 132,554,347.77
Amount of related party	Not applicable
Duration	08/29/2015
Loan or other type of debt	Yes
Interest rate	Exchange variation + 3.11% per year
Relationship with the Issuer	Subsidiary
Purpose of the contract	Financing Working Capital
Guaranties and insurance	None
Conditions of termination or expiration	PREPAYMENT

- Vale and Sociedad Contractual Minera Tres Valles may cancel the non-disbursed portion of the funding.
- Sociedad Contractual Minera Tres Valles may, upon notification to Vale ten days in advance, prepay the funding as a whole or in part.

EARLY REDEMPTION

- If upon execution of the funding agreement there is any amendment to law, regulation or interpretation by any governmental authority that considers the agreement illegal or Vale being prevented from complying with it or funds impossible to be sent, the agreement is cancelled and every disbursement and accrued interest and accrued amounts related to the agreement shall be immediately due and payable.
- If the Company no longer controls Sociedad Contractual Minera Tres Valles, the agreement is cancelled and every disbursement and accrued interest and accrued amounts related to the agreement shall be immediately due and payable.
The operation aims to cover the working capital need of Sociedad Contractual Minera Tres Valles

Nature and reasons for the operation / other relevant Information

Name of related party	CPP Participações S/A
Date of transaction	8/9/2010
Amount (R\$)	R\$ 349,586.25
Current balance (R\$) (12/31/2012)	R\$ 0.00

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Amount of related party	Not applicable
Duration	12/28/2012
Loan or other type of debt	YES
Interest rate	94% of CDI
Relationship with the Issuer	Subsidiary
Purpose of the contract	Loan
Guaranties and insurance	None
Conditions of termination or expiration	PREPAYMENT

CPP may prepay the amount, in whole or in part, including principal and interest calculated from August 9, 2010 until effective payment.

CPP should notify its intention to make the prepayment at least 3 (three) days in advance.

Table of Contents

EARLY REDEMPTION

Nature and reasons for the operation / other relevant Information

If CPP fails to meet any of its obligations, Vale may automatically assume the debt for the total value of the loan (principal and interest) plus the contractual penalty provided for in the contract, the present serving as an extrajudicial execution order, in accordance with Article 585 of the Code of Civil Procedure.

Interest rate charged: 94% of the CDI.

This is an inter-company loan for cash centralization.. Vale is the creditor in the operation.

Name of related party	Kserge Serviços Gerais Ltda.
Date of transaction	03/17/2011
Amount (R\$)	R\$ 11,677,485.25
Current balance (R\$) (12/31/2012)	R\$ 14,154,791.52
Amount of related party	Not applicable
Duration	06/28/2013
Loan or other type of debt	YES
Interest rate	94% of CDI
Relationship with the Issuer	Subsidiary
Purpose of the contract	Loan
Guaranties and insurance	None
Conditions of termination or expiration	PREPAYMENT

KSG may prepay the amount, in whole or in part, including principal and interest calculated from March 17, 2011 until effective payment.

KSG should notify its intention to make the prepayment at least 3 (three) days in advance.

EARLY REDEMPTION

Nature and reasons for the operation / other relevant Information

If KSG fails to meet any of its obligations, Vale may automatically assume the debt for the total value of the loan (principal and interest) plus the contractual penalty provided for in the contract, the present serving as an extrajudicial execution order, in accordance with Article 585 of the Code of Civil Procedure.

Interest rate charged: 94% of the CDI.

This is an inter-company loan for cash centralization. Vale is the creditor in the operation.

Name of related party	MSE Serviços de Operação, Manutenção e Montagem Ltda.
Date of transaction	03/17/2011
Amount (R\$)	R\$ 55,841,996.61

Current balance (R\$) (12/31/2012)	R\$ 68,133,273.72
Amount of related party	Not applicable
Duration	06/28/2013
Loan or other type of debt	YES
Interest rate	94% of CDI
Relationship with the Issuer	Subsidiary
Purpose of the contract	Loan
Guaranties and insurance	None
Conditions of termination or expiration	PREPAYMENT

MSE may prepay the amount, in whole or in part, including principal and interest calculated from March 17, 2011 until effective payment.

MSE should notify its intention to make the prepayment at least 3 (three) days in advance

EARLY REDEMPTION

If MSE fails to meet any of its obligations, Vale may automatically assume the debt for the total value of the loan (principal and interest) plus the contractual penalty provided for in the contract, the present serving as an extrajudicial execution order, in accordance with Article 585 of the Code of Civil Procedure
Interest rate charged: 94% of the CDI.

Nature and reasons for the operation / other relevant Information

This is an inter-company loan for cash centralization.. Vale is the creditor in the operation.

Name of related party	Norpel Pelotização do Norte S.A.
Date of transaction	03/17/2011

Table of Contents

Amount (R\$)	R\$ 25,460,362.19
Current balance (R\$) (12/31/2012)	R\$ 31,599,972.08
Amount of related party	Not applicable
Duration	06/28/2013
Loan or other type of debt	YES
Interest rate	94% of CDI
Relationship with the Issuer	Subsidiary
Purpose of the contract	Loan
Guaranties and insurance	None
Conditions of termination or expiration	PREPAYMENT

NORPEL may prepay the amount, in whole or in part, including principal and interest calculated from March 17 (seventeen), 2011 until effective payment.

NORPEL should notify its intention to make the prepayment at least 3 (three) days in advance.

EARLY REDEMPTION

If NORPEL fails to meet any of its obligations, Vale may automatically assume the debt for the total value of the loan (principal and interest) plus the contractual penalty provided for in the contract, the present serving as an extrajudicial execution order, in accordance with Article 585 of the Code of Civil Procedure.

Interest rate charged: 94% of the CDI.

Nature and reasons for the operation / other relevant information

This is an inter-company loan for cash centralization.. Vale is the creditor in the operation.

Name of related party	Vale S.A. e Vale Óleo e Gás S.A.
Date of transaction	7/1/2011
Amount (R\$)	R\$ 35,766,000.00
Current balance (R\$) (12/31/2012)	0.00
Amount of related party	Not applicable
Duration	6 months, by 12/31/2011. (contract ended)
Loan or other type of debt	NO
Interest rate	Not applicable
Relationship with the Issuer	Subsidiary
Purpose of the contract	The purpose of the contract is the provision of technical support services by Vale Óleo e Gás, in Brazil and abroad, for technical-economic assessment and oil and natural gas asset risks, as well as potential areas for research and exploration, accompaniment of E&P activities, assisting and representing Vale before its partners, committees and managing entities, including preparation, approval and control of budgets, schedules and compliance with environmental requirements, and health and safety requirements, compliance and release of cash calls and service measurements
Guaranties and insurance	None
Conditions of termination or expiration	Not applicable

Nature and reasons for the operation / other relevant Information

Name of related party	Vale S.A. e Vale Óleo e Gás S.A.
Date of transaction	3/16/2012
Amount (R\$)	R\$ 35,356,297.79
Current balance (R\$) (12/31/2012)	12,856,835.56
Amount of related party	Not applicable
Duration	11 months starting on 02/01/2012 and ending on 12/31/2012. The contract was extended, on 01/10/2013, for another 180 days, past the maturity date, until 06/30/2013.
Loan or other type of debt	NO
Interest rate	Not applicable
Relationship with the Issuer	Subsidiary
Purpose of the contract	The purpose of the contract is to provide support technical services, by Vale Óleo e Gás, in Brazil and abroad, technical-economical assessment and oil and natural gas assets risk assessment, as well as the assessment of potential areas for the research, exploration, and monitoring of E&P activities, plus

Table of Contents

Guaranties and insurance	Vale's consultancy and representation to their partners, committees, managing organizations, oil and gas consortiums, including the development, approval and control of budget estimates, schedules and compliance with environmental, health, and safety requirements, conference and release of cash calls, and service measurement.
Conditions of termination or expiration	None
Nature and reasons for the operation / other relevant Information	Not applicable

Name of related party	Biopalma Da Amazônia S.A. Reflorestamento, Indústria E Comércio
Date of transaction	03/17/2011
Amount (R\$)	R\$ 301,800,000.00
Current balance (R\$) (12/31/2011)	R\$ 691,831,618.14
Amount of related party	Not applicable
Duration	05/15/2021
Loan or other type of debt	YES
Interest rate	Libor 6M + 4.5% per year
Relationship with the Issuer	Subsidiary
Purpose of the contract	Financing of investments
Guaranties and insurance	None
Conditions of termination or expiration	EARLY REDEMPTION

- a) Biopalma may at any time redeem the debentures early, as a whole or in part, with no fine.
- b) If it intends to exercise the right of early redemption of Debentures, Biopalma should notify VALE in writing.
- c) In case of early redemption of Debentures, under the terms in clause 5.6.2 of the deed, Biopalma should pay VALE, in up to thirty (30) days from date of the notice of early redemption, in full, the remaining balance of the Debentures.

EARLY MATURITY

Without prejudice to the penalty set forth in clause 6.1 of the deed, VALE may determine the early maturity of all obligations related to the Debentures, and require immediate payment from Biopalma of the remaining balance of the Updated Unit Value of the Debentures, added with Interest due from the Date of Issue, or the last date of payment of Interest, as the case may be, until effective payment, calculated pro rata temporis, and other fees, regardless of notice, communication, judicial or extrajudicial notification, in the event of any of the Default Events below:

- a) non-payment by Biopalma on the due date of the principal, of Compensation or any other obligation due to VALE;
- b) non-compliance by Biopalma of any obligation in the Deed, failing to be solved within ten (10) calendar days on the date of non-compliance;

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c) if Biopalma present any guaranty or in any case, assume, as a whole or in part, any financial obligation, or of any nature, from any party or authorize any Subsidiary, direct or indirect, to offer any guaranty or assume any obligation in this clause, except with VALE s prior written approval;

d) non-compliance by Biopalma or any of its Affiliates or Subsidiaries with any obligation or condition in any other agreement they are parties in, unresolved within thirty (30) calendar days, except those in lines (a) and (b) above which shall not be subject to any resolution term;

e) failure to renew, cancel, revoke, or suspend for a period exceeding thirty (30) days from the date of the event, authorizations and licenses, including environmental and those granted by regulation entities, required to operate and maintain its activities and those of its Affiliates and Subsidiaries;

f) amendment, suspension, cancellation, termination or representation of nullity or unenforceability, as a whole or in part of the Deed, without VALE s prior written consent;

g) file for judicial recovery or composition with creditors or class of creditors of the request for extrajudicial recovery filed by Biopalma, or any of its Affiliates or Subsidiaries;

h) request of termination, liquidation, dissolution, insolvency, bankruptcy, bankruptcy out of legal terms or Biopalma s bankruptcy filed by third parties, or its Affiliates or Subsidiaries;

i) failure to obtain or renew any approval, permit, registration, or

Table of Contents

governmental authorization required to have Biopalma comply with obligations set forth in the Deed;

j) any Relevant Adverse Impact;

k) any action, arbitration or administrative procedure against Biopalma or its Affiliates or Subsidiaries which, at Vale's discretion, is likely to cause a Relevant Adverse Impact as well as pledge of any of Biopalma's assets in amount exceeding R\$ 500,000.00 (five hundred thousand reais);

l) any action, arbitration or administrative or judicial procedure related to environmental issues;

m) reduction of the capital stock of Biopalma, without VALE's prior approval;

n) early termination of any financial obligation to which Biopalma, or its Affiliates or Subsidiaries are subject to, in domestic or international market, individually or jointly, exceeding R\$ 500,000.00 (five thousand reais);

o) legitimate protest of titles against Biopalma or its Affiliates or Subsidiaries, individually or jointly, exceeding R\$ 200,000.00 (two hundred reais), except when within thirty (30) calendar days from said protest, (i) it is validly proven by Biopalma that the protest was based on third party's mistake or bad faith; (ii) the protest was cancelled or suspended, or, (iii) sufficient guaranties were presented in court;

p) if VALE (or any of its Subsidiaries) is no longer a shareholder of Biopalma; and

q) any corporate reorganization, including incorporation, merger, division of Biopalma, or any of its Affiliates or Subsidiaries.

Nature and reasons for the operation / other relevant Information

The purpose of the operation is to finance investments related to cultivation, production, and trading of palm oil. 2 (two) debentures were issued: 03/17/2011 (1st series of 1st issue), 08/01/2011 (2nd series, 1st issue), and 10/28/2011 (2nd issue). The amount reported above corresponds to the sum of the 2 issues. Interest rate is from Libor +4.5% per year.

Table of Contents

Name of related party	VLI S.A.
Date of transaction	22/12/2011
Amount (R\$)	Not applicable
Current balance (R\$) (12/31/2011)	Not applicable
Amount of related party	Not applicable
Duration	One year, automatically renewable for equal periods.
Loan or other type of debt	Not applicable
Interest rate	Not applicable
Relationship with the Issuer	Subsidiary
Purpose of the contract	Technical Cooperation Agreement which object is the development of actions by the parties aiming deployment, in VLI's railroad operations, within the scope of the management program known as VPS Vale Production System.
Guaranties and insurance	Not applicable
Conditions of termination or expiration	Non-compliance by the other party with any of the contractual obligations, except if the Infringing Party fails to resolve the non-compliance within sixty (60) days upon receipt of notice by the Non-Infringing Party in this sense.

If the other Party files for insolvency, bankruptcy of judicial or extrajudicial recovery;

Change in direct or indirect shareholding control of either Party;

Nature and reasons for the operation / other relevant Information	Evidence of government authority act, administration act, act of God or force majeure, that prevents performance of the Agreement for more than six (6) months. VALE maintains the VPS management program, deployed in its operations, and is interested in allowing VLI, as subsidiary of VALE, to use the system to maintain management excellency in the performance of administrative and operational activities related to general cargo logistics promotion.
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Name of related party	VLI S.A.
Date of transaction	12/30/2011
Amount (R\$)	Vale S.A will monthly calculate the costs engaged in each support process run on behalf of VLI S.A and its subsidiaries.
Current balance (R\$) (12/31/2011)	Not applicable
Amount of related party	Not applicable
Duration	Effective for two (2) years, renewable automatically for successive twelve (12) month periods.
Loan or other type of debt	Not applicable
Interest rate	Not applicable
Relationship with the Issuer	Subsidiary
Purpose of the contract	Cooperation Agreement for Support Process and Sharing Costs (CSC).
Guaranties and insurance	Not applicable
Conditions of termination or expiration	There is no penalty provided in case of contractual termination.
Nature and reasons for the operation / other relevant Information	VLI, and its subsidiaries, intend to enjoy the opportunity of centralizing their support processes in the administrative structure developed by Vale, thus enjoying standardization, control, scale gains and increased efficiency in these activities, in order to optimize efficiency of these activities, while reducing costs.

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There is no value addition to Vale, that is not aiming profits or compensations with support processes, limiting to transfer costs directly related to the use of Vale's infrastructure to the companies that give rise to the use demand.

Name of related party	VLI S.A.
Date of transaction	12/30/2011
Amount (R\$)	3,361,251.02
Current balance (R\$) (12/31/2011)	Not applicable
Amount of related party	Not applicable
Duration	1 year, effective on the date of signature, renewable upon contractual amendment executed by the Parties contractual.

Table of Contents

Loan or other type of debt	Not applicable
Interest rate	Not applicable
Relationship with the Issuer	Subsidiary
Purpose of the contract	Provision of technical services by VALE to VLI and its subsidiaries or affiliates, through the Technical Service System Servtec, including the following: (i) provision of technical services for the development of VLI projects, and (ii) studies on operational and technical support improvement for VLI's railroad and port operations.
Guaranties and insurance	Not applicable
Conditions of termination or expiration	If the other Party files for bankruptcy of judicial or extrajudicial recovery; Act of God or force majeure duly evidenced, that prevents performance of services for more than 90 days; If fines applied to the other Party sum 10%. Non-compliance with any of the contractual obligations by the Infringing Party that is not resolved within thirty days upon receipt of notice by the Non-Infringing Party in this sense.
Nature and reasons for the operation / other relevant Information	Change in direct or indirect shareholding control of either Party Not applicable.

Table of Contents

16.3 Identification of measures taken to address the conflict of interest and demonstration of the strictly commutative nature of conditions agreed upon or appropriate compensation payment

As mentioned in item 16.1, Vale conducts transactions with related parties in order to always best serve its interests and those of its shareholders.

Transactions concluded with related parties are supported by prior, careful evaluations of the terms therein, so that they take place under strictly equitable conditions, obeying the normal market prices and conditions. Thus, transactions with related parties do not generate any undue benefits or harm to the parties involved.

To check the equitable nature of operations with related parties, the Company reviews the financial viability of each operation vis-à-vis similar market transactions between unrelated parties. The Company uses comparative analysis methods.

Transactions with related parties of the Company may, in general, be divided into: (i) Operational transactions, and (ii) Financial transactions.

Within the operational part of its activities, Vale performs a substantial volume of transactions with its wholly owned subsidiaries, subsidiaries and companies under joint control with third parties, in view of its policy of integration of its activities in the production and commercial chain. Besides the extraction of minerals, Vale invests heavily in activities related to transport, logistics, and energy services and supplies essential to achieving its corporate purpose. The Company's investments in the logistics segment are based on the transport needs for mining operations and for other products sold to customers. Additionally, Vale invests in power generation to meet its own internal needs, in order to reduce costs and minimize risks due to problems of energy supply. In this context, several operational contracts have been signed between Vale and members of companies in its group, always taking care to observe fair and balanced terms and avoid discrepancies with market conditions, as required by Corporate and Tax laws.

With respect to transactions of a financial nature, Vale seeks continuously and energetically to find the best options available in local and international markets, with a view to securing or investing resources. Overall, investments are undertaken in order to maintain the liquidity of the company available for its investments coupled with a conservative policy regarding the assuming of credit risk of counterparties, with a focus on maintaining its assets in first-tier banks.

Table of Contents**17.1 Information about the capital stock**

Date of authorization or approval	Value of the Capital (R\$)	Deadline for payment	Number of common shares	Number of preferred shares	Total number of shares
Class of capital	Issued capital				
18/May/2011	75,000,000,000.00		3,256,724,482	2,108,579,618	5,365,304,100
Capital stock by class of share			Other securities convertible into shares		
Class of preferred share	Number of shares	Denomination	Conditions for conversion		
Preferred Class A	2,108,579,606				
Preferred Class E	12				
Class of capital	Subscribed capital				
18/May/2011	75,000,000,000.00		3,256,724,482	2,108,579,618	5,365,304,100
Capital stock by class of share			Other securities convertible into shares		
Class of preferred share	Number of shares	Denomination	Conditions for conversion		
Preferred Class A	2,108,579,606				
Preferred Class E	12				
Class of capital	Paid-in capital				
18/May/2011	75,000,000,000.00		3,256,724,482	2,108,579,618	5,365,304,100
Capital stock by class of share			Other securities convertible into shares		
Class of preferred share	Number of shares	Denomination	Conditions for conversion		
Preferred Class A	2,108,579,606				
Preferred Class E	12				

Table of Contents

Class of capital	Authorized capital
30/Aug/2007	0.00

Capital stock by class of share		Other securities convertible into shares	
Class of preferred share	Number of shares	Denomination	Conditions for conversion
Preferred class A	7,200,000,000		

17.2 Increases in the capital stock

Resolution date	Corporate body that ruled the increase	Issue date	Total amount of the issue (R\$)	Type of increase	Common shares (number)	Preferred shares (number)	Total shares (number)	Subscription / Previous capital	Issue price
19/May/2010	Special stockholders meeting	19/May/2010	2,565,806,871.32	Without issue of shares	0	0	0	0.00000000	0.00

Criteria for determining the value of the issue

N/A

Type of payment

Capitalization of part of the expansion/investments reserve and capitalization of the investments reserve.

18/May/2011

Board of Directors

18/May/2011

25,000,000,000.00

Without issue of shares

0

0

0

0.00000000

0.00

Criteria for determining the value of the issue

N/A

Type of payment

Capitalization of part of the expansion/investments reserve, the operational results/share conversion reserve, and part of the incentives reserve.

Table of Contents

17.3 Information on stock splits, reverse splits, and stock bonuses

Justification for not giving information on this item:

There were no stock splits, reverse splits, or bonuses in the last three fiscal years.

17.4 Information on reductions in the capital stock

Justification for not giving information on this item:

There was no reduction in the capital stock of the company in the last three fiscal years.

17.5 Other relevant information

Additional information about securities convertible to shares

The mandatory convertible notes belonging to the Series VALE-2012 and Series VALE.P-2012 issued on July 13, 2009 by Vale Capital II matured on June 15, 2012.

The notes in the amount of US\$292,445,150 belonging to Series VALE-2012, yielded interest of 6.75% per year, paid quarterly. At their maturity, on June 15, 2012, the Series VALE-2012 notes were exchanged for American Depositary Shares (ADS), each ADS representing one common share issued by Vale. The exchange rate was 2.7082 ADSs representing common shares for each of VALE-2-12 s notes.

The notes in the amount of US\$649,213,250 belonging to the Series VALE.P-2012, yielded interest of 6.75% per year, paid quarterly. At their maturity, on June 15, 2012, the Series VALE.P-2012 notes were exchanged for ADS, each ADS representing one preferred class A share issued by Vale. The exchange rate was 3.0993 ADSs representing ordinary shares for each of VALE-P-2012 series notes.. The ADSs for which the notes were exchanges represent a total of 15,836,884 ordinary shares, equivalent to 1.3% of the common shares in circulation, and the VALE.P-2012 series notes represent a total of 40,241,968 preferential shares of class A, the equivalent to 2.2% of the preferential shares in circulation.

Table of Contents**18.1. Share rights**

Share types or CDA	Common
Tag along	80.000000
Dividend Rights	Under Vale s Bylaws and the applicable legislation, owners of common shares will have the right to receive dividends proportionate to their interest in the capital stock, after distribution of dividends to holders of preferred shares. According to Article 44 of Vale s Bylaws, at least 25% (twenty-five percent) of the annual net profits, adjusted under the law, will be assigned to the payment of the mandatory dividend to all Vale s shareholders.
Voting rights	Full
Convertibility	No
Right to reimbursement of capital	Yes
Description of the characteristics of the reimbursement of capital	Shareholders who hold common shares will have the right to the reimbursement of the value of their shares according to the provisions set forth in the applicable law, according to the terms and conditions established.
Restrictions regarding outstanding shares	No
Circumstances where guaranteed rights of said securities may be altered	Rights guaranteed to common shares that are not determined by the applicable law may be altered by means of an amendment of the Bylaws, approved at the Extraordinary General Meeting that can only be held in the 1st instance, with the presence of the shareholders representing at least 2/3 of the voting capital, and in a second instance with any number of shareholders present. Changes shall be approved based on quorums and conditions set forth by the Law of Joint Stock Company. It is also stressed that in accordance with article 7 of the bylaws, special class preferred shares shall have the right of veto over any modification of rights assigned to types and classes of shares issued by the Company, as well as any modification of article 7, or any other rights granted by the bylaws to special class preferred shares.
Other Relevant Characteristics	There are no restrictions regarding outstanding common shares issued by Vale. For information about restrictions to Vale s stock trading by the involved individuals, see description of our Negotiation Policy in item 20 on this Reference Form. All other characteristics of common shares issued by the Company that we believe are relevant were described on items above.
Share types or CDA	Preferred
Class of preferred shares	Class A Preferred
Tag along	0.000000
Dividend rights	Class A preferred shares have the following rights: a) priority in receiving dividends, to be calculated in the form of Company bylaws, corresponding to (i) at least 3% of the net worth of the share based on the Financial Statements that served as a reference for the payment of dividends or (ii) 6% calculated on the part of the capital formed by each class of share, whichever of them is greater; (ii) the right to participate in profit sharing on equal terms with the common shares, once these have been guaranteed a dividend equal to the minimum priority; and (iii) participation in any premiums, on equal terms with the common shares, maintaining the priority for the distribution of dividends. According to the Company s Bylaws, at least 25% of the annual net profits, adjusted under the law, will be assigned to the payment of the mandatory dividend to the company s shareholders.
Voting rights	Restricted.
Description of restricted vote	Preferred shares class A will have the same political rights the common shares, with the exception of voting for the election of members of the Board of Directors, with the qualification set forth in §§ 2 and 3 of article 11 of the Company bylaws, as well as the right to elect and dismiss a member of the fiscal Council and his Deputy. Preferred shares will exercise full and unrestricted right to vote if the Company no longer pays, for a period of three (3) consecutive financial years, the minimum dividends assured to holders

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Convertibility
Right to reimbursement of capital

of preferred shares, to which they have a right under the terms above.
No
No

Table of Contents

Restrictions regarding outstanding shares Circumstances where guaranteed rights of said securities may be altered	<p>No</p> <p>The rights guaranteed to the class A preferred shares that are not determined by the applicable law may be altered by means of an amendment of the bylaws, approved at the extraordinary General Meeting that can only be held in the 1st instance, with the presence of shareholders representing at least 2/3 of the voting capital, and the 2nd instance with any number of shareholders present. Changes shall be approved based on quorums and conditions set forth by the Law of Joint Stock Company. The effectiveness of the decision will depend on the prior approval or ratification within one year, without the possibility of extending this period, by holders of more than half of each class of preferred shares whose rights would be impaired, meeting at extraordinary meeting. It is also stressed that in accordance with article 7 of the bylaws, special class preferred shares shall have the right of veto over any modification (i) of rights assigned to types and classes of shares issued by Vale, (ii) of article 7 itself, and (iii) of other rights assigned to special class shares.</p>
Other Relevant Characteristics	<p>There are no restrictions regarding outstanding class A preferred shares issued by the Company. For information about restrictions to the Vale's stock negotiations by the involved individuals, see description of our Negotiation Policy in item 20 on this Reference Form. All the characteristics of the class A preferred shares that the Company believes are relevant were described above.</p>
Share types or CDA Class of preferred shares Tag along Dividend rights	<p>Preferred</p> <p>Preferred Class E</p> <p>0.0000000</p> <p>Special class preferred shares (golden shares) have the following rights: a) priority in receiving dividends, to be calculated in the form of the Company's bylaws, corresponding to (i) at least 3% of the net worth of the share based on the Financial Statements that served as a reference for the payment of dividends or (ii) 6% calculated on the part of the capital formed by each class of share, whichever of them is greater; (ii) the participation in profit sharing on equal terms with the common shares, once these have been guaranteed a dividend equal to the minimum priority; and (iii) participation in any premiums, on equal terms with the common shares, maintaining the priority established for the distribution of dividends. According to the Company's Bylaws, at least 25% of the annual net profits, adjusted under the law, will be assigned to the payment of the mandatory dividend to the company's shareholders.</p>
Voting rights Description of restricted vote	<p>Restricted</p> <p>The special class preferred shares (golden shares) have the same political rights as common shares, with the exception of voting for the election of members of the board of directors, with the qualification set out in §§ 2 and 3 of article 11 of the Company Bylaws, as well as the right to elect a member of the fiscal Council and his Deputy. Golden shares also have a right to veto on the following subjects: (I) change in corporate name; (ii) change of headquarters; (iii) change in statutory purpose regarding mining activities; (iv) liquidation of the company; (v) transfer or closing of the activities of any or all of the following stages of the company's integrated system of iron ore: (i) mineral deposits, reservoirs, mines; (ii) railroads; (iii) ports and maritime terminals; (vi) any modification of rights assigned to types and classes of shares set forth in the bylaws; and (vii) any amendment to article 7, or any rights granted to special class shares in the Bylaws.</p>
Convertibility Right to reimbursement of capital Restrictions regarding outstanding shares Description of Restriction Circumstances where guaranteed rights of said securities may be altered	<p>No</p> <p>No</p> <p>Yes</p> <p>Special class preferred shares belong exclusively to the Union.</p> <p>The rights guaranteed to preferred shares that are not determined by the applicable law may be altered by means of an amendment of the bylaws, and approved at the extraordinary General Meeting that can only be held in the 1st instance, with the presence of shareholders representing at least 2/3 of the voting capital, and the 2nd instance with any number of shareholders present. Changes shall be approved based on quorums and</p>

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conditions set forth by the Law of Joint Stock Company. It is also stressed that in accordance with article 7

Table of Contents

Other Relevant Characteristics

of the bylaws, special class preferred shares shall have the right of veto over any modification (i) of rights assigned to types and classes of shares issued by Vale, (ii) of article 7 itself, and (iii) of other rights assigned to special class shares.

All the other characteristics of the special class preferred shares that the Company believes are relevant were described above.

18.2 Description of eventual statutory regulations which limit the right to vote of large shareholders or which cause them to hold a public offering

There are no statutory regulations which limit the right to vote of large shareholders or which cause them to hold a public offering.

18.3 Description of exceptions and suspensive clauses relative to ownership or political rights set forth in the bylaws

There are no exceptions or suspensive clauses relative to ownership or political rights set forth in the Company's bylaws.

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Table of Contents

18.4 Volume of trading as well as minimum and maximum prices for securities traded

Fiscal Year	12/31/2012				Administrative entity	Traded Financial Volume (R\$)	Highest Price Listed (R\$)	Lowest Price Listed (R\$)	Lowest Price Listed (R\$)
Quarter	Securities	Type	Class	Market					
03/31/2012	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	176,566,227	45.87	40.45	R\$ per unit
06/30/2012	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	201,095,181	44.01	35.83	R\$ per unit
09/30/2012	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	191,967,726	41.77	32.45	R\$ per unit
12/31/2012	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	169,190,319	42.82	35.32	R\$ per unit
03/31/2012	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	702,448,937	43.97	38.90	R\$ per unit
06/30/2012	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	684,874,396	42.85	34.78	R\$ per unit
09/30/2012	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	709,188,562	40.50	32.12	R\$ per unit
12/31/2012	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores, Mercadorias e Futuros	594,453,460	41.00	34.29	R\$ per unit
Fiscal Year	12/31/2011					Traded Financial Volume(R\$)	Highest Price Listed (R\$)	Lowest Price Listed (R\$)	Lowest Price Listed (R\$)
Quarter	Securities	Type	Class	Market	Administrative entity				
03/31/2011	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	169,739,167	60.92	50.75	R\$ per unit

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06/30/2011	Shares	Common	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	159,927,701	54.40	47.22	R\$ per unit
09/30/2011	Shares	Common	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	216,116,854	51.45	39.81	R\$ per unit
12/31/2011	Shares	Common	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	179,141,262	46.00	38.59	R\$ per unit
03/31/2011	Shares	Preferred PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	758,096,190	53.41	44.70	R\$ per unit

Table of Contents

06/30/2011	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	625,315,346	48.30	32.15	R\$ per unit
09/30/2011	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	721,283,562	46.41	36.54	R\$ per unit
12/31/2011	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	693,382,780	42.64	36.80	R\$ per unit

Fiscal Year		12/31/2010				Traded Financial	Highest Price	Lowest Price	Lowest Price
Quarter	Securities	Type	Class	Market	Administrative entity	Volume(R\$)	Listed (R\$)	Listed (R\$)	Listed (R\$)
03/31/2010	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	153,821,415	57.45	47.16	R\$ per unit
06/30/2010	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	178,385,133	59.85	43.65	R\$ per unit
09/30/2010	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	130,785,983	52.30	42.85	R\$ per unit
12/31/2010	Shares	Common		Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	161,444,574	58.19	52.80	R\$ per unit
03/31/2010	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	763,899,296	49.55	40.80	R\$ per unit
06/30/2010	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	900,334,068	51.34	37.50	R\$ per unit
09/30/2010	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	685,509,796	46.30	37.52	R\$ per unit
12/31/2010	Shares	Preferred	PNA	Stock Exchange	BM&FBOVESPA S.A. - Bolsa Valores,	674,544,688	50.92	46.75	R\$ per unit

Table of Contents

18.5 Description of other securities which are not shares

<p>Security Identification of security Issuing date Quantity (Units) Total value (Reais) Restriction to outstanding units Convertibility Convertibility condition and effects on capital stock</p> <p>Possibility of redemption Characteristics of securities</p> <p>Conditions to alter rights assured by the securities Other relevant characteristics</p>	<p>Securities Deposit Certificates ADS (American Depositary Shares) VALE 03/15/2002 696,140,930 29,816,941,240.69 No Yes Each VALE ADS represents one common share issued by the Company, and conversion has no effect on the capital stock. No Each VALE ADS represents one common share issued by the Company. Quantity (units) represents VALE ADS outstanding on 12/31/2012. (*)Total value based on the ADS price on 12/31/2012 There isn t VALE ADS are traded on the New York Stock Exchange under the tag VALE. The ADSs are represented by ADRs (<i>American depositary receipts</i>) issued by the depositary, JPMorgan Chase Bank</p>
<p>Security Identification of security Issuing date Quantity (Units) Total value (Reais) Restriction to outstanding units Convertibility Convertibility condition and effects on capital stock</p> <p>Possibility of redemption Characteristics of securities</p> <p>Conditions to alter rights assured by the securities Other relevant characteristics</p>	<p>Securities Deposit Certificates ADS (American Depositary Shares) VALE-P. 06/20/2000 741,212,026 30,732,588,867.29 No Yes Each VALE-P ADS represents one preferred share issued by the Company, and conversion has no effect on the capital stock No Each VALE ADS represents one preferred share issued by the Company. Quantity (units) represents one VALE-P ADS outstanding on 12/31/2012. (*)Total value based on the ADS price on 12/31/2012. There isn t VALE-P ADS are traded on the New York Stock Exchange under the tag VALE. The ADSs are represented by ADRs (<i>American depositary receipts</i>) issued by the depositary, JPMorgan Chase Bank</p>
<p>Security Identification of security Issuing date</p>	<p>Debentures CVRD2 7 Debentures (7th issue 2nd series) 11/20/2006</p>

Table of Contents

Maturity date	11/20/2013
Quantity (Units)	400,000
Total value (Reais)	4,000,000,000.00
Restriction to outstanding units	No
Convertibility	No
Possibility of redemption	Yes
Circumstance and calculation of redemption value	I. Possibility of redeeming: from 11/20/2010, it will be possible to effect acceleration of all the debentures.

II. Formula for calculating value of redemption: $p = d/D * 0.35\%$ (p=premium; d=number of days between redemption date and maturity date; D=number of days between 11/20/2010 and redemption date)

Characteristics of Securities

I. Maturity date: 11/20/13

II. Circumstances for early maturity: all Company obligations may be declared matured early, under the terms and conditions set forth in the Deed of Issue, in the occurrence of any of the events summarized below:

a) bankruptcy, receivership order or out-of-court recovery or settlement, dissolution or extinction of company;

b) changing the company into a limited liability company, pursuant to articles 220 to 222 of law No. 6,404/76;

c) non-payment of the Nominal Value, of Remuneration of premium or of any other amounts owed to the debenture holders, within 10 days upon due date

d) violation, by the Company, of any obligation for non-monetary compensation provided for in the deed of issue, and if such breach is not dealt with within 60 (sixty) days from the date of receipt of notice in writing, that is sent to the Company by the Fiduciary Agent for this purpose;

e) if any of the statements made in the deed of issue are proven to be false, incorrect or misleading in any relevant aspect;

f) occurrence of default or of default event by the Company or by any relevant subsidiary (any subsidiary in which the proportional participation of Vale in the total assets of the subsidiary exceeds 10% of the total consolidated assets of the company at the end of the last financial year), which is not dealt with, for any

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contract, debt instrument or document showing an open debt at a value equal to or exceeding R\$ 125,000,000 (one hundred and twenty-five million reais) updated monthly, from the date of issue, by IGMP, provided that such default or default event results in an effective acceleration of said debt;

g) reduction of the capital stock of the company, in accordance with article 174 of law No. 6,404/76, except if the operation has been previously approved by holders of at least the majority of outstanding Debentures of the first series and at least the majority of outstanding Debentures of the second series, as provided for in paragraph 3 of article 174 of law No. 6,404/76; or

h) approval of incorporation, merger or split of the company or sale, by the company, of all or substantially all of its assets or its mining properties, with some exceptions. The provisions of this section shall not apply to the operations of incorporation that have been previously approved by holders of at least the majority of Debentures of the first series in circulation or has been assured for the holders of Debentures who wish, during the period of at least six

Table of Contents

months, to redeem the Debentures which they own.

III. Interest: DI+0.25% per year.

IV. Guarantee, and if real, description: None.

V. in the absence of a guarantee, if the credit is secured or subordinate: Secured Credit.

VI. Any restrictions imposed on the issuer: None.

VII. The fiduciary agent, indicating the key terms of the contract: Pentagono SA DTVM. The contract concluded with Pentagono has the usual market terms, among Vale's obligations we highlight: (i) maintaining proper functioning body to take care of Debenture holders' interests; and (ii) contracting, at the beginning of the offer, at least one risk classification agency to perform risk classification (rating) of the Debentures, also, with respect to at least one agency risk classification, update it annually, until the expiration date. Among the obligations of the fiduciary agent we highlight: (i) protecting the rights and interests of debenture holders (ii) keeping in safe custody all deeds and titles (iii) convening, when necessary, the General Meeting of debenture holders (iv) preparing an annual report for debenture holders (v) maintaining an updated record of debenture holders. The fiduciary agent receives annual remuneration of R\$ 24,000.00, adjusted annually by IGMP.

Conditions to alter rights assured by the securities

During deliberations of the General Meetings of debenture holders for each of the series, for each outstanding Debenture one vote will be granted, permitting the establishment of proxy, whether Debenture holder or not. Except for the provisions below, all deliberations to be taken in the General Meeting of debenture holders will depend on approval of debenture holders representing at least the majority of outstanding Debentures of the Second Series. Not included in the quorum above are: (I) the quorums expressly provided for in other clauses of the deed of issue, such as the quorum for substitution of fiduciary agent in case of absence, temporary impediments, renunciation, intervention, judicial or extra-judicial settlement or bankruptcy of the same; and (ii) changes, which should be approved by debenture holders representing at least 90% (ninety per cent) of outstanding Debentures of the Second Series, as provided for in article 71, paragraph 5, of law No. 6,404/76: (i) of the quorums for approval provided for in the Deed of issue; (ii) the remuneration of Debentures, except in case of replacement of the DI rate; (iii) any dates for payment of any amounts provided for in the Deed of issuance; (d) of the type of Debentures; (e) of the amendment of the provisions for optional early redemption; or (f) creation of a reprising event.

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Other relevant characteristics

Debentures issued by Vale S.A.

Security

Identification of security

Issuing date

Quantity (Units)

Total value (Reais)

Restriction to outstanding units

Convertibility

Debentures

Participative Debentures (CVRDA6, CVRDB6, CVRDC6, CVRDD6)

07/08/1997

388,559,056

3,885,590.56

No

No

Table of Contents

<p>Possibility of redemption</p> <p>Characteristics of Securities</p>	<p>No</p> <p>Single series. Registered. Not represented by certificate. Par value updated pursuant to IGP-M variation. Participative debentures are traded in secondary market together with the SND (National System of Debentures) under the management of ANDIMA (National Association of Open Market Institutions) and the operation of CETIP since October 2002. CETIP codes of the debentures are CVRDA6, CVRDB6, CVRDC6, CVRDD6. The ISIN number of the debentures is BRVALEDBS028</p>
<p>Conditions to alter rights assured by the securities</p>	<p>Any change in the conditions of the debentures shall depend on the approval of the debenture holders that represent the absolute majority of the outstanding debentures. The maturity of the debentures shall take place in the event of extinction of all the mining rights that are the purpose of the Deed, including also the exhaustion of the discriminated mineral reserves or the reserves that replaced them. In that case, the Issuer (Vale) binds itself to liquidate the outstanding Debentures at its par value updated according to the provisions set forth in the Deed, without Premium.</p>
<p>Other relevant characteristics</p>	<p>Any change in the conditions of the debentures shall depend on the approval of the debenture holders that represent the absolute majority of the outstanding debentures. The maturity of the debentures shall take place in the event of extinction of all the mining rights that are the purpose of the Deed, including also the exhaustion of the discriminated mineral reserves or the reserves that replaced them. In that case, the Issuer (Vale) binds itself to liquidate the outstanding Debentures at its par value updated according to the provisions set forth in the Deed, without Premium. Premiums due to debenture holders shall be paid every six months, on March 31 and September 30 of each year.</p>
<p>Security</p> <p>Identification of security</p> <p>Issuing date</p> <p>Quantity (Units)</p> <p>Total value (Reais)</p> <p>Restriction to outstanding units</p> <p>Convertibility</p> <p>Convertibility condition and effects on capital stock</p>	<p>Securities Deposit Certificates</p> <p>HDS (Hong Kong Depositary Shares) 6210</p> <p>12/08/2010</p> <p>1,037,550</p> <p>41,994,301.54</p> <p>No</p> <p>Yes</p> <p>Each HDS VALE 6210 represents one preferred share issued by the Company, and conversion has no effect on the capital stock.</p>
<p>Possibility of redemption</p> <p>Characteristics of securities</p>	<p>No.</p> <p>Each HDS VALE 6210 represents one preferred share issued by the Company. (*)Total value based on the HDS price on 12/31/2012.</p>
<p>Conditions to alter rights assured by the securities</p> <p>Other relevant characteristics</p>	<p>None</p> <p>HDS 6210 are traded on the Hong Kong Stock Exchange (HKEx), under the tag 6210. The HDS are represented by HDR (<i>Hong Kong depositary receipts</i>) issued by the depositary, JPMorgan Chase Bank.</p>
<p>Security</p> <p>Identification of security</p> <p>Issuing date</p> <p>Quantity (Units)</p> <p>Total value (Reais)</p> <p>Restriction to outstanding units</p> <p>Convertibility</p> <p>Convertibility condition and effects on capital stock</p>	<p>Securities Deposit Certificates</p> <p>HDS (Hong Kong Depositary Shares) 6230</p> <p>12/08/2010</p> <p>31,400</p> <p>255,168.84</p> <p>No</p> <p>Yes</p> <p>Each HDS VALE 6230 represents one preferred share issued by the Company, and conversion has no effect on the capital stock.</p>

Table of Contents

Possibility of redemption	No
Characteristics of securities	Each HDS VALE 6230 represents one preferred share issued by the Company. (*)Total value based on the HDS price on 12/31/2012.
Conditions to alter rights assured by the securities	None.
Other relevant characteristics	HDS 6230 are traded on the Hong Kong Stock Exchange (HKEx), under the tag 6230. The HDS are represented by HDR (<i>Hong Kong depositary receipts</i>) issued by the depositary, JPMorgan Chase Bank.

18.6 Brazilian markets where company's securities are admitted for trading

The main market for trading the Company's common and preferred shares is the BM&FBOVESPA Commodities and Futures Stock Exchange in São Paulo.

The debentures of the Company were recorded for trading in the secondary market through (i) the SND - National Debenture System, administered and operated by CETIP S.A. Mercados Organizados; and (ii) the BOVESPAFIX, an integrated environment for trading, settlement and custody of securities, administered and operated by BM&FBOVESPA.

18.7 Information on class and type of securities admitted to trading in foreign markets

The following bonds: VALE42, VALE22, (reopening), VALE22, VALE39, VALE19, CVRD36, CVRD34B, CVRD17, CVRD16, CVRD34, CVRD13, INCO2015, INCO2012, INCO2032, CVRD20 and CVRD39 were accepted for trading in the United States of America, on the New York Stock Exchange, on 09/11/2012, 04/04/2012, 1/11/2012, 11/10/2009, 09/15/2009, 11/21/2006, 11/02/2005, 11/21/2006, 01/10/2006, 01/15/2004, 08/08/2003, 09/26/2003, 05/13/2002, 09/23/2002, 09/15/2010 and 09/15/2010. The Securities Exchange Commission (SEC) is the body responsible for the administration of the New York Stock Exchange and the Bank of New York is the depositary bank and custodial institution for the Bonds.

The American Depositary Shares (ADSs), represented by American Depositary Receipts (ADRs) Vale and VALE.P, were admitted to trading in the United States of America, on the New York Stock Exchange on 03/15/2002 and 06/20/2000 respectively. The ADSs, represented by ADRs, VALE3 and VALE5, have also been admitted for trading in France, on the NYSE Euronext, both on 07/21/2008. The Securities and Exchange Commission (SEC) is the body responsible for the administration of the New York Stock Exchange and the French *Autorité des Marchés Financiers* (AMF) is the entity responsible for the NYSE Euronext. The depositary bank is the JPMorgan Chase Bank. Each ADS VALE or ADS VALE3 represents a common share issued by the company, and 22% of the company's common shares are linked to the ADSs VALE and VALE3. Each ADS Vale.P or ADS VALE5, represents a Class A preferred share issued by the Company, and 38% of Vale Class A preferred shares are linked to the ADSs VALE.P and VALE5.

Hong Kong Depositary Shares (HDSs), represented by Hong Kong Depositary Receipts (HDRs), 6210 and 6230 were admitted to trading in Hong Kong, on the Hong Kong Stock Exchange on 12/08/2010. The Hong Kong Securities and Futures Commission (SFC) is the body responsible for the administration of the Hong Kong Stock Exchange. The depositary bank is the JPMorgan Chase Bank. Each HDR 6210 represents a common share issued by the company, and 0.03% of Vale's common shares are linked to the HDRs 6210. Each HDR 6230 represents a Class A preferred share issued by the Company and 0.002% Vale Class A preferred shares are linked to the HDRs 6230.

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Eurobond VALE23 with maturity in 2023 was admitted to trading on the regulated market of Luxembourg, the Luxembourg Stock Exchange and the EuroMTF, on July 10, 2012. The *Commission de la Surveillance du Secteur Financier* is responsible for approval of the issue prospectus and the Bank of New York is the depositary bank and custodial institution for *Eurobond VALE23*.

The Eurobond *CVRD18* with maturity in 2018 was admitted to trading on the regulated market of the Luxembourg Stock Exchange on 03/24/2010. The *Commission de la Surveillance du Secteur Financier* is responsible for approval of the issue prospectus and the Bank of New York is the depositary bank and custodial institution for *Eurobond CVRD18*.

Trading of Bonds, American Depositary Shares and Eurobonds last year was wholly conducted abroad.

For more information about the securities admitted to trading in foreign markets, see items 18.5 and 18.10 of this Reference Form.

Table of Contents

18.8 Distribution public offerings made by the issuer or by third parties, including controlling companies and subsidiaries, relating to issuer's securities, during the last three financial years

For information on public offerings of securities, see items 10.1 and 10.7 in this Reference Form.

18.9 Description of takeover bids made by the issuer for shares issued by third parties

Takeover to acquire shares of Vale Fertilizantes S.A.

In June, 2011, Vale announced submission to the Board of Directors of a proposal by the executive directors for a takeover of up to 100% of shares issued by the subsidiary Vale Fertilizantes, aiming to close its capital. The takeover was approved by the Board of Directors on June 30, 2011 and was registered before the Brazilian Securities Commission (CVM) on July 15, 2011.

The offer's tender was issued on November 10, 2011. The Takeover comprised the payment for shares in cash by the subsidiary Mineração Naque S.A., at R\$25.00 per share, either common or preferred shares issued by Vale Fertilizantes, corresponding to a 41% premium over the average price of preferred shares traded in the last 20 trading days prior to the disclosure of the offer, in June 2011. In December 2011, Vale concluded the Offer, resulting in the acquisition of 211,014 common shares and 82,919,456 preferred shares issued by Vale Fertilizantes, representing 83.8% of the common shares and 94.0% of preferred shares, for a total amount of R\$ 2.2 billion.

In January 2012, an Extraordinary Shareholders' Meeting at Vale Fertilizantes approved the redemption of 5,314,386 remaining outstanding shares, including common and preferred shares, representing 0.94% of the total shares of Vale Fertilizantes. Vale now holds, through subsidiaries, 100% of common and preferred shares issued by Vale Fertilizantes.

18.10 Other relevant information

In Item 18.4 the shares financial volume pertains to the daily trading average in each quarter.

Below is information about the securities trading volume and the highest and lowest price traded in the stock exchange in each of the quarters during the last three fiscal years, other than those referred to in item 18.4 of this Reference Form.

Vale ON	ADS VALE	Daily Average Volume (US\$ Mil)	Highest List Price (US\$)(1)	Lowest List Price (US\$)(1)
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1 th Quarter 2010	755,835	32.3	25.2
2 th Quarter 2010	950,663	34.6	24.0
3 th Quarter 2010	569,570	31.3	24.3
4 th Quarter 2010	632,066	34.7	31.5
1 th Quarter 2011	720,241	37.1	31.0
2 th Quarter 2011	555,372	34.3	29.4
3 th Quarter 2011	556,741	33.6	22.8
4 th Quarter 2011	426,554	26.6	20.5
1 th Quarter 2012	433,613	26.6	22.4
2 th Quarter 2012	406,662	23.9	17.9
3 th Quarter 2012	358,461	20.6	15.9
4 th Quarter 2012	318,557	20.9	17.1

Vale PNA	ADS VALE.P	Daily Average Volume (US\$ Mil)	Highest List Price (US\$)(1)	Lowest List Price (US\$)(1)
1 th Quarter 2010		243,184	27.8	21.9
2 th Quarter 2010		318,938	29.5	20.2
3 th Quarter 2010		214,045	27.8	21.1
4 th Quarter 2010		247,639	30.5	27.9
1 th Quarter 2011		240,922	32.5	27.0

Table of Contents

2th Quarter 2011	202,807	30.4	26.1
3th Quarter 2011	221,425	30.4	21.0
4th Quarter 2011	185,228	24.9	19.6
1th Quarter 2012	171,549	25.5	21.3
2th Quarter 2012	172,052	24.3	17.4
3th Quarter 2012	141,719	20.1	15.7
4th Quarter 2012	125,928	20.3	16.6

Source: Bloomberg

(1) Based on prices at closing

Below is the description of other securities issued by the Company and its subsidiaries, other than those referred to in item 18.5 of this Reference Form.

Identification of security	BNDESPAR Debentures – Ferrovia Norte Sul and Vale Logística Carga Geral – 1st Issue
Quantity	66,510 debentures, at par value of R\$ 10,000.00
Value	R\$ 665,100,000.00
Issuing date	12/17/2007
Restriction to outstanding units	No
Convertibility into shares or granting the right to subscribe or acquire issuer shares	The Debentures can be exchanged at any time from the first day of the 11th year from date of issue, at the free discretion of their holder, for a quantity of common shares issued by Ferrovia Norte Sul S.A. (<u>FNS</u>) or Vale Logística de Carga Geral S.A. (<u>Vale Logística</u>) that matches, in each Annual Exchange Period, the application of the percentages that range from 0.74% to 9.62% (<u>Percentage Of Shares In The Exchange</u>) on the number of common shares in which Ferrovia Norte Sul S.A. (FNS) capital stock is divided, as long as this value is equal to or less than R\$ 1,876,280,000.00. The debenture holders may, at their sole discretion, exchange the entirety or only part of their Debentures, and each Debenture can be exchanged for the amount of shares resulting from the division between (i) the application of the Percentage of Shares in the Exchange to the number of common shares that make up the capital of FNS, as long as this value is equal to or less than R\$ 1,876,280,000.00 and (ii) the amount of Debentures fully paid.

The Percentage Of Shares In The Exchange was obtained on the basis of (i) projected economic value of FNS forecast as from the 11th year after Date Of Issue, as per cash flow projection and (ii) projected value of Nominal Unit Value as of the 11th year after Date Of Issue.

Once the Debentures are exchanged for FNS or Vale Logística controlling shares, there will be no effects on Vale's capital stock.

The number of shares issued by Vale Logística which the Debentures holders will have a right to receive at the exchange regulated will be that resulting from the multiplication of Vale Logística capital stock percentage, defined in the third clause of the first annex, by the number of shares in which Vale Logística capital stock is divided.

The debenture holders will have to choose between the exchange for FNS

Table of Contents

shares or for Vale Logística shares, provided that (i) in neither case, will the Debenture holder be able to exchange part of his debentures for FNS shares and part for Vale Logística shares; and (ii) at the time of the exchange for FNS shares, the option to exchange for Vale Logística shares will immediately be void and any blockage established may be released and vice-versa.

Possibility of redemption

I. Possibilities of redemption:

Vale must effect the early redemption of all (and nothing less than the entirety) of debentures outstanding within 30 (thirty) days of the occurrence of the following events:

- extinction of sub-concession contract concluded between VALEC Engenharia, Construções e Ferrovias S.A. and the FNS for the administration and operation of public rail cargo transport service on the Norte-Sul Railroad, due to expiry; buy-in; termination; agreement between the parties; annulment of sub-concession or concession or declaration of nullity of the administrative bidding procedure; and
- intervention by the Licensing Authority in the sub-concession or in the concession for the administration and operation of public rail cargo transport service on the Norte-Sul Railroad conferred granted to FNS.

e) Formula for calculating value of redemption:

On the payment date of the redemption, Vale will affect the settlement of the debentures which are still outstanding, at their non-amortized nominal unit value, plus the amount capitalized but not amortized, as well as the monetary interest capitalized semi-annually on the 15th of June and December each year with a grace period of 4 years counted from the date of issue and still not amortized, and remuneration in the amount of 0.8% p.a. above the TJLP (long-term interest rate) liable until such date (the Value of Redemption).

The Value of Redemption shall be increased by a percentage of 20% (twenty per cent) if (i) the termination of letter a above is due to the expiry of the concession or even sub-concession (ii) when the cancellation of the above-mentioned concession or sub-concession is attributable, as determined in administrative proceedings, to Vale Logística or the FNS.

Characteristics of Securities

I. Maturity date: 12/17/2027

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II. Early maturity: Acceleration: In addition to the assumptions referred to in articles 39, 40 and 47-A of the Provisions Applicable to BNDES Agreements, debenture holders may declare all debentures to be matured in advance and require payment, by Vale, of the debt relative to the balance of debentures, plus the interest and other charges which are liable up to the date of payment in the occurrence of the following events:

- failure by Vale to fulfill any monetary obligation related to the debentures not dealt with within 10 (ten) days counted from their respective maturity date;
- failure to correct any default of any non-monetary obligation as provided in the Deed, within a forty-five-day-term.
- declaration of acceleration of any debt of Vale by reason of breach of contract which individual amount equals or exceeds R\$ 125,000,000.00 or which aggregate value, in a period of twelve (12) consecutive months, is equal to or greater than R\$ 1,000,000,000.00.
- the inclusion in the articles of incorporation or bylaws of Vale, FNS, or Vale Logística of any mechanism whereby a special quorum is required for a decision or approval of matters which limit or restrict

Table of Contents

control of Vale, FNS or Vale Logística by their controlling companies or, further, the inclusion in those documents, of mechanisms which lead to: restrictions on the growth capacity of Vale and FNS or their technological development; restrictions on access by Vale, FNS or Vale Logística to new markets; or restrictions on or impairment of the ability to pay financial obligations provided for in this Deed of Issue.

- if the effective direct share control of Vale, FNS or Vale Logística is changed by any means, unless approved in advance by holders of debentures;

- acquisition by FNS or Vale Logística of controlling shareholding or shareholdings in other companies, joint ventures or consortia consisting of activities which are not complementary to the normal development of the corporate purpose of FNS or Vale Logística, characterizing deviation from FNS or Vale Logística corporate purpose, unless approved in advance by holders of debentures, representing the majority of debentures and the issuer shall call upon a Debenture Holder Meeting to be held at least in thirty (30) days, from the calling date, to discuss matters referred to above, and failure to hold such meeting due to lack of quorum in first instance shall imply tacit approval of the operation;

- in relation to FNS, the occurrence of any acquisition, merger, split, transformation or any other corporate reorganization, whether this reorganization be strictly corporate or performed by using relevant assets; in relation to Vale Logística, the occurrence of any acquisition (except if Vale Logística appears as acquirer in the operation and provided that the acquired company in such operation is not FNS), merger, split, transformation or any other operation or set of operations, under which a significant portion of the assets of Vale Logística are transferred to third-parties, where significant portion of assets of Vale Logística means, at a given time, 50% of all assets held by Vale Logística, and in relation to the issuer, the occurrence of corporate re-organizations which imply transferring to third parties that are not controlled by Vale, ownership of FNS or Vale Logística shares which will be the subject matter of an exchange in the terms of the Deed of Issue, unless any of the operations referred to in this item is approved in advance by holders of debentures representing at least 50% plus one of outstanding debentures and the issuer shall call upon a Debenture Holder Meeting to be held at least in thirty (30) days, from the calling date, to discuss matters referred to above, and failure to hold such meeting due to lack of quorum in first instance shall imply tacit approval of the operation; transfer of ownership of shares issued by FNS or Vale Logística which will be the subject matter of an exchange to an issuer subsidiary should be permitted provided that the party acquiring such shares should respond, upon amendment to the Deed of Issuance, for obligations related to the exchange and the for obligations the block set forth in the Deed of Issue; and the acquiring party should be controlled by the issuer until the maturity date;

- non-compliance, by Vale, of any provision concerning the interchangeability of debentures;

- if Vale does not support and maintain the block set forth in the Deed of Issue, under the terms and conditions;
- if Vale does not use the proceeds generated by the issuance for capitalization of FNS, within 3 (three) days counted from the paying up of the debentures.

III. Interest: TJLP + 0.8% per year

IV. Guarantee: None

Table of Contents

V. In the absence of a guarantee, if the credit is secured or subordinate: Secured Credit

VI. Possible restrictions imposed on the issuer:

- for distribution of dividends: None
- disposal of certain assets: Vale may dispose of any goods, if at its discretion, this act is desirable for the efficient running of its business and does not adversely affect Vale's capacity to honor its obligations in terms of the Deed of Issue.
- assumption of new debt: none
- issuing new securities: none

VI. The fiduciary agent, indicating the key terms of the contract: none

Conditions to alter rights assured by the securities Any changes to the terms of this debenture issue will depend on the approval of debenture holders representing at least 50% plus 1 debenture of outstanding debentures. For the purpose of setting up the quorum, debentures possibly belonging to Vale shall be excluded.

Other relevant characteristics Debentures issued by Vale S.A., privately, which were fully subscribed by BNDES Participações S.A. Vale undertakes to maintain, for the duration of the Deed, the following indexes compiled annually through the financial statements audited by external auditors registered with the CVM (Securities Commission): a) Ratio of Debt over Adjusted EBITDA less than or equal to 4.5 (four and five tenths); and b) Ratio of Adjusted EBITDA over Interest Expenses greater than or equal to 2.0 (two).

In the event these levels are not complied with, Vale should provide, within 60 (sixty) days counted from the date of such communication, in writing to debenture holders, collateralized guarantees, accepted by the debenture holders, at a value corresponding to at least 130% (one hundred and thirty per cent) of the debt balance of debentures, unless within that period the levels above are reestablished.

Security	Debentures BNDESPAR Debentures Ferrovia Norte Sul and Vale Logística de Carga Geral 2nd Issue
Quantity	38,520 debentures
Unit Value	R\$ 10,000.00
Issuing date	10/15/2009
Restriction to outstanding units	None
Convertibility into shares or granting the right to subscribe or acquire issuer shares	The debentures are exchangeable against shares issued by Ferrovia Norte Sul S.A. (<u>FNS</u>), or Vale Logística de Carga Geral S.A. (<u>Vale Logística</u>), held by Vale S.A.

The Debentures can be exchanged at any time from December 18,, 2017, at the free discretion of their holder, for a quantity of common shares issued by FNS or, from the first day of the eleventh year from the Date of Issue, in a number of common shares issued by Vale Logística that matches, in each Annual Exchange Period, the application of the percentages that range from 0.73% to 5.33% (Percentage Of Shares In The Exchange) on the number of common shares in which Ferrovia Norte Sul S.A. (FNS) capital stock is divided, as long as this value is equal to or less than R\$ 1,876,280,000.00. The debenture holders may, at their sole discretion, exchange the entirety or only part of their Debentures, and each Debenture can be exchanged for the amount of shares resulting from the division between (i) the application of the Percentage of Shares in the Exchange to the number of common shares that make up the capital of FNS, as long as this value is equal to or less than R\$ 1,876,280,000.00 and (ii) the amount of Debentures fully paid.

The Percentage Of Shares In The Exchange was obtained on the basis of (i) projected cash flow of FNS and (ii) projected value of Nominal Unit Value as of the annual exchange periods. Once the Debentures are

Table of Contents

exchanged for FNS or Vale Logística controlling shares, there will be no effects on Vale's capital stock.

The number of shares issued by Vale Logística which the Debentures holders will have a right to receive at the exchange regulated will be that resulting from the multiplication of Vale Logística capital stock percentage, defined in the third clause of the First Amendment to the Deed, by the number of shares in which Vale Logística capital stock is divided.

The Debenture holders will have to choose between the exchange for FNS shares or for Vale Logística shares, provided that (i) in neither case, will the Debenture holder be able to exchange part of his debentures for FNS shares and part for Vale Logística shares; and (ii) at the time of the exchange for FNS shares, the option to exchange for Vale Logística shares will immediately be void and any blockage established may be released and vice-versa.

Possibility of redemption

- Possibilities of redemption:

Vale must effect the early redemption of all (and nothing less than the entirety) of debentures outstanding within 30 (thirty) days of the occurrence of the following events:

- extinction of sub-concession contract concluded between VALEC Engenharia, Construções e Ferrovias S.A. and the FNS for the administration and operation of public rail cargo transport service on the Norte-Sul Railroad, due to expiry; buy-in; termination; agreement between the parties; annulment of sub-concession or concession or declaration of nullity of the administrative bidding procedure; and
- Intervention by the Licensing Authority in the sub-concession or in the concession for the administration and operation of public rail cargo transport service on the Norte-Sul Railroad conferred granted to FNS.

I. Formula for calculating value of redemption:

On the payment date of the redemption, Vale will affect the settlement of the debentures which are still outstanding, at their non-amortized nominal unit value, plus the amount capitalized but not amortized, as well as the monetary interest capitalized semi-annually on the 15th of June and December each year with a grace

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period between the Date of Issue and 6/15/2012 and still not amortized, and remuneration in the amount of 0.8% p.a. above the TJLP (long-term interest rate) liable until such date (the Value of Redemption).

The Value of Redemption shall be increased by a percentage of 20% (twenty per cent) if (i) the termination of letter a above is due to the expiry of the concession or even sub-concession (ii) when the cancellation of the above-mentioned concession or sub-concession is attributable, as determined in administrative proceedings, to Vale Logística or the FNS.

Characteristics of Securities

I. Maturity date: 12/17/2027

II. Early maturity

In addition to the assumptions referred to in articles 39, 40 and 47-A of the Provisions Applicable to BNDES Agreements, debenture holders may declare all debentures to be matured in advance and require payment, by Vale, of the debt relative to the balance of debentures, plus the interest and other charges which are liable up to the date of payment in the occurrence of the following events:

- failure by Vale to fulfill any monetary obligation related to the debentures not dealt with within 10 (ten) days counted from their

Table of Contents

respective maturity date;

- failure to correct any default of any non-monetary obligation as provided in the Deed, within a 45-day term.

- declaration of acceleration of any debt of Vale by reason of breach of contract which individual amount equals or exceeds R\$ 125,000,000.00 or which aggregate value, in a period of twelve (12) consecutive months, is equal to or greater than R\$ 1,000,000,000.00

- the inclusion in the articles of incorporation or bylaws of the issuer, FNS or Vale Logística of any mechanism whereby a special quorum is required for a decision or approval of matters which limit or restrict control of the issuer, FNS or Vale Logística by their controlling companies or, further, the inclusion in those documents, of mechanisms which lead to: (i) restrictions on the growth capacity of the issuer, FNS or Vale Logística or their technological development; (ii) restrictions on access by the issuer, FNS or Vale Logística to new markets; or (iii) restrictions on or impairment of the ability to pay financial obligations provided for in this Deed of Issue.

- if the effective direct share control of Vale, FNS or Vale Logística is changed by any means, unless approved in advance by holders of debentures;

- acquisition by FNS or Vale Logística of controlling shareholding or shareholdings in other companies, joint ventures or consortia consisting of activities which are not complementary or not related to the normal development of the corporate purpose of FNS or Vale Logística, characterizing deviation from FNS or Vale Logística corporate purpose, unless approved in advance by holders of debentures representing the majority of debentures and the issuer shall call upon a Debenture Holder Meeting to be held at least in thirty (30) days, from the calling date, to discuss matters referred to above, and failure to hold such meeting due to lack of quorum in first instance shall imply tacit approval of the operation;

- in relation to FNS, the occurrence of any acquisition, merger, split, transformation or any other corporate reorganization, whether this reorganization be strictly corporate or performed by using relevant assets; in relation to Vale Logística, the occurrence of any acquisition (except if Vale Logística appears as acquirer in the operation and provided that the acquired company in such operation is not FNS), merger, split, transformation or any other operation or set of

operations, under which a significant portion of the assets of Vale Logística are transferred to third-parties, where significant portion of assets of Vale Logística means, at a given time, 50% of all assets held by Vale Logística; and in relation to the issuer, the occurrence of corporate re-organizations which imply transferring to third parties that are not controlled by Vale, ownership of FNS or Vale Logística shares which will be the subject matter of an exchange in the terms of the Deed of Issue, unless approved in advance by holders of debentures representing at least 50% plus one of outstanding debentures, and the issuer shall call upon a Debenture Holder Meeting to be held at least in thirty (30) days, from the calling date, to discuss matters referred to above, and failure to hold such meeting due to lack of quorum in first instance shall imply tacit approval of the operation; transfer of ownership of shares issued by FNS or Vale Logística which will be the subject matter of an exchange to an issuer subsidiary should be permitted provided that the party acquiring such shares should respond, upon amendment to the Deed of Issuance, for obligations related to the exchange and the for obligations the block set forth in the Deed of Issue; and the acquiring party should be controlled by the issuer until the maturity date;

- non-compliance, by Vale, of any provision concerning the interchangeability of debentures

Table of Contents

- if Vale does not support and maintain the block referred to in the Deed of Issue under its terms and conditions;

- if Vale does not use the proceeds generated by the issuance for capitalization of FNS, within 3 (three) days counted from the paying up of the debentures.

III. Interest: TJLP + 0.8% per year

IV. Guarantee: None

V. In the absence of a guarantee, if the credit is secured or subordinate: Secured Credit

VI. Possible restrictions imposed on the issuer:

- for distribution of dividends: None

- disposal of certain assets: Vale may dispose of any goods, if at its discretion, this act is desirable for the efficient running of its business and does not adversely affect Vale's capacity to honor its obligations in terms of the Deed of Issue.

- assumption of new debt: none

- issuing new securities: none

VII. The fiduciary agent, indicating the key terms of the contract: none

Conditions to alter rights assured by the securities

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Any changes to the terms of this debenture issue will depend on the approval of debenture holders representing at least 50% plus 1 debenture of outstanding debentures. For the purpose of setting up the quorum, debentures possibly belonging to Vale shall be excluded.

Other relevant characteristics

Debentures issued by Vale S.A., privately, which were fully subscribed by BNDES Participações S.A.

Vale undertakes to maintain, for the duration of the Deed, the following indexes compiled annually through the financial statements audited by external auditors registered with the CVM (Securities Commission): a) Ratio of Debt over Adjusted EBITDA less than or equal to 4.5 (four and five tenths); and b) Ratio of Adjusted EBITDA over Interest Expenses greater than or equal to 2.0 (two).

In the event these levels are not complied with, Vale should provide, within 60 (sixty) days counted from the date of such communication, in writing to debenture holders, collateralized guarantees, accepted by the debenture holders, at a value corresponding to at least 130% (one hundred and thirty per cent) of the debt balance of debentures, unless within that period the levels above are reestablished.

Identification of security

Quantity

Value

Issuing date

Restriction to outstanding units

Convertibility into shares or granting the right to subscribe or acquire issuer shares

BNDESPAR Debentures Ferrovias Norte Sul and Vale Logística de Carga Geral 3rd Issue

35,712 debentures

R\$10,000.00

6/9/2011

No

Debentures are convertible into shares issued by Ferrovias Norte Sul S.A. (FNS) or Vale Logística de Carga Geral S.A. (Vale Logística), held by Vale S.A.

The Debentures can be exchanged at any time from December 18,, 2017, at the free discretion of their holder, for a quantity of common shares issued by FNS or, from the first day of the eleventh year from the Date of Issue, in a number of common shares issued by Vale Logística that matches, in each Annual Exchange Period, the application of the percentages that range from 1.13% to 5.93% (Percentage Of Shares In The Exchange) on the number

Table of Contents

of common shares in which FNS capital stock is divided, as long as this value is equal to or less than R\$ 1,876,280,000.00. The debenture holders may, at their sole discretion, exchange the entirety or only part of their Debentures, and each Debenture can be exchanged for the amount of shares resulting from the division between (i) the application of the Percentage of Shares in the Exchange to the number of common shares that make up the capital of FNS, as long as this value is equal to or less than R\$ 1,876,280,000.00 and (ii) the amount of Debentures fully paid.

The Percentage Of Shares In The Exchange was obtained on the basis of (i) projected cash flow of FNS and (ii) projected value of Nominal Unit Value as of the annual exchange periods. As debentures are to be converted into shares issued by the controlled company FNS or Vale Logística, there will be no effects on Vale's capital stock.

The number of shares issued by Vale Logística which the Debentures holders will have a right to receive at the exchange regulated will be that resulting from the multiplication of Vale Logística capital stock percentage, defined in the third clause of the Deed, by the number of shares in which Vale Logística capital stock is divided.

The debenture holders will have to choose between the exchange for FNS shares or for Vale Logística shares, provided that (i) in neither case, will the Debenture holder be able to exchange part of his debentures for FNS shares and part for Vale Logística shares; and (ii) at the time of the exchange for FNS shares, the option to exchange for Vale Logística shares will immediately be void and any blockage established may be released and vice-versa.

Possibility of redemption

I. Possibilities of redemption:

Vale must effect the early redemption of all (and nothing less than the entirety) of debentures outstanding within 30 (thirty) days of the occurrence of the following events:

- extinction of sub-concession contract concluded between VALEC Engenharia, Construções e Ferrovias S.A. and FNS for the administration and operation of public rail cargo transport service on the Norte-Sul Railroad, due to expiry; buy-in; termination; agreement between the parties; annulment of sub-concession or concession or declaration of nullity of the administrative bidding procedure; and

- intervention by the Licensing Authority in the sub-concession or in the concession for the administration and operation of public rail cargo transport service on the Norte-Sul Railroad conferred granted to FNS.

II. Formula for calculating value of redemption:

On the payment date of the redemption, Vale will affect the settlement of the debentures which are still outstanding, at their non-amortized nominal unit value, plus the amount capitalized but not amortized, as well as the monetary interest capitalized semi-annually on the 15th of June and December each year with a grace period between the Date of Issue and 6/15/2012 and still not amortized, and remuneration in the amount of 0.8% p.a. above the TJLP (long-term interest rate) liable until such date (the Value of Redemption).

The Value of Redemption shall be increased by a percentage of 20% (twenty per cent) if (i) the termination of letter a above is due to the expiry of the concession or even sub-concession (ii) when the cancellation of the above-mentioned concession or sub-concession is attributable, as determined in administrative proceedings, to Vale Logística or the FNS.

Characteristics of Securities

I. Maturity date: 12/17/2027

II. Early maturity:

Table of Contents

In addition to the assumptions referred to in articles 39, 40 and 47-A of the Provisions Applicable, to BNDES Agreements, debenture holders may declare all debentures to be matured in advance and require payment, by Vale, of the debt relative to the balance of debentures, plus the interest and other charges which are liable up to the date of payment in the occurrence of the following events:

- failure by Vale to fulfill any monetary obligation related to the debentures not dealt with within 10 (ten) days counted from their respective maturity date;

- failure to correct any default of any non-monetary obligation as provided in the Deed, within a forty-five-day-term.

- declaration of acceleration of any debt of Vale by reason of breach of contract which individual amount equals or exceeds R\$ 125,000,000.00 or which aggregate value, in a period of twelve (12) consecutive months, is equal to or greater than R\$ 1,000,000,000.00;

- the inclusion in the articles of incorporation or bylaws of the issuer, FNS or Vale Logística of any mechanism whereby a special quorum is required for a decision or approval of matters which limit or restrict control of the issuer, FNS or Vale Logística by their controlling companies or, further, the inclusion in those documents, of mechanisms which lead to:
 - (i) restrictions on the growth capacity of the issuer, FNS or Vale Logística or their technological development;
 - (ii) restrictions on access by the issuer, FNS or Vale Logística to new markets; or
 - (iii) restrictions on or impairment of the ability to pay financial obligations provided for in this Deed of Issue;

- if the effective share control of Vale, FNS or Vale Logística is changed by any means, unless approved in advance by holders of debentures;

- acquisition by FNS or Vale Logística of controlling shareholding or shareholdings in other companies, joint ventures or consortia consisting of activities which are not complementary or not related to the normal development of the

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corporate purpose of FNS or Vale Logística, characterizing deviation from FNS or Vale Logística corporate purpose, unless approved in advance by holders of debentures representing the majority of debentures and the issuer shall call upon a Debenture Holder Meeting to be held at least in thirty (30) days, from the calling date, to discuss matters referred to above, and failure to hold such meeting due to lack of quorum in first instance shall imply tacit approval of the operation;

- in relation to FNS, the occurrence of any acquisition, merger, split, transformation or any other corporate reorganization, whether this reorganization be strictly corporate or performed by using relevant assets; in relation to Vale Logística, the occurrence of any acquisition (except if Vale Logística appears as acquirer in the operation and provided that the acquired company in such operation is not FNS), merger, split, transformation or any other operation or set of operations, under which a significant portion of the assets of Vale Logística are transferred to third-parties, where significant portion of assets of Vale Logística means, at a given time, 50% of all assets held by Vale Logística; and in relation to the issuer, the occurrence of corporate re-organizations which imply transferring to third parties that are not controlled by Vale, ownership of FNS or Vale Logística shares which will be the subject matter of an exchange in the terms of the Deed of

Table of Contents

Issue, unless any of the operations referred to in this item is approved in advance by holders of debentures representing at least 50% plus one of outstanding debentures and the issuer shall call upon a Debenture Holder Meeting to be held at least in thirty (30) days, from the calling date, to discuss matters referred to above, and failure to hold such meeting due to lack of quorum in first instance shall imply tacit approval of the operation; transfer of ownership of shares issued by FNS or Vale Logística which will be the subject matter of an exchange to an issuer subsidiary should be permitted provided that the party acquiring such shares should respond, upon amendment to the Deed of Issuance, for obligations related to the exchange and the for obligations the block set forth in the Deed of Issue; and the acquiring party should be controlled by the issuer until the maturity date;

- non-compliance, by Vale, of any provision concerning the interchangeability of debentures;
- if Vale does not support and maintain the block set forth in the Deed of Issue, under the terms and conditions;
- if Vale does not use the proceeds generated by the issuance for capitalization of FNS, within 3 (three) days counted from the paying up of the debentures.

III. Interest: TJLP + 0.8% per year

IV. Guarantee: None.

V. In the absence of a guarantee, if the credit is secured or subordinate: Secured Credit.

VI. Possible restrictions imposed on the issuer:

- for distribution of dividends: None

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- disposal of certain assets: Vale may dispose of any goods, if at its discretion, this act is desirable for the efficient running of its business and does not adversely affect Vale's capacity to honor its obligations in terms of the Deed of Issue.

- assumption of new debt: none

- issuing new securities: none.

VII. The fiduciary agent, indicating the key terms of the contract: none.

Conditions to alter rights assured by the securities

Any changes to the terms of this debenture issue will depend on the approval of debenture holders representing at least 50% plus 1 debenture of outstanding debentures. For the purpose of setting up the quorum, debentures possibly belonging to Vale shall be excluded.

Other relevant characteristics

Debentures issued by Vale S.A., privately, which were fully subscribed by BNDES Participações S.A.

Vale undertakes to maintain, for the duration of the Deed, the following indexes compiled annually through the financial statements audited by external auditors registered with the CVM (Securities Commission): a) Ratio of Debt over Adjusted EBITDA less than or equal to 4.5 (four and five tenths); and b) Ratio of Adjusted EBITDA over Interest Expenses greater than or equal to 2.0 (two).

In the event these levels are not complied with, Vale should provide, within 60 (sixty) days counted from the date of such communication, in writing to debenture holders, collateralized guarantees, accepted by the debenture holders, at a value corresponding to at least 130% (one hundred and thirty per cent) of the debt balance of debentures, unless within that period the levels above are reestablished.

Table of Contents

Security	Debentures Salobo 1
Quantity	5 debentures
Unit Value	R\$ 15,250,399.93
Total Value	R\$ 76.251,999.65
Issuing date	01/06/97
Restriction to outstanding units	No
Convertibility into shares or granting the right to subscribe or acquire issuer shares	The debentures combine 5 subscription premiums (1 for each debenture) giving the holder the right to subscribe to preferred shares of Salobo Metais S.A., in the amount equivalent to 50% of the shares issued existing at the time the subscribed fully paid in capital 2 times the issue value of the debentures.
Possibility of redemption	None
Characteristics of Securities	I. Maturity date: 7 years as of the achievement of accumulated commercial invoicing of 200,000 tons of copper by Salobo Metais S.A. (5 successive annual installments, formed of principal and interest due after the first 2 years after the achievement of accumulated commercial invoicing of 200,000 tons of grade A copper cathode of London Metals Exchange)
	II. Possibility of early redemption: none
	III. Interest: IGP-DI + 6.5% per year (capitalized)
	IV. Guarantee: Vale S.A. guarantee
	V. In the absence of any guarantee, if the credit is secured or subordinate: the debentures will be subordinate to the other creditors of the issuer
	VI. Possible restrictions imposed on the issuer, in relation to:
	<ul style="list-style-type: none"> • distribution of dividends: None • disposal of determined assets: none • contracting of new debt: none • issuing new securities: none

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: none.
None

Other relevant characteristics

Debentures issued by Salobo Metais s.a., privately, which were fully subscribed by the Banco Nacional de Desenvolvimento Econômico e Social (BNDES)

When issuing shares arising from the exercise of the right of subscription, a premium will be paid corresponding to the dividends distributed to shareholders until that date, in the proportion of shares subscribed by BNDES or its assignee.

Security

Bonds VALE22(11)

Quantity

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000

Value

US\$ 1,000,000,000.00 issued on 01/11/2012 and US\$ 1,250,000,000.00 issued by the reopening of existing bond on 04/04/2012, in a total of US\$ 2,250,000,000.00

Issuing date

01/11/2012 and 04/04/2012

(11) Bonds issued by subsidiary Vale Overseas Ltd.

Table of Contents

Restriction to outstanding units	None
Convertibility into shares or granting the right to subscribe or acquire issuer shares	None
Possibility of redemption	<p>I. Possibilities of redemption</p> <ul style="list-style-type: none"> • Redemption by means of payment of premium, at any time, of all notes, or part of the notes, periodically, at Vale Overseas criterion. • Redemption due to changes in the tax law: if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law, Vale Overseas may redeem the entirety of the notes in advance. <p>II. Formula for calculating value of redemption:</p> <ul style="list-style-type: none"> • The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.40% • Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.
Characteristics of <i>Bonds</i>	<p>I. Maturity date: 01/11/2022</p> <p>II. Early maturity: If a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:</p> <ul style="list-style-type: none"> • failure to pay interests, principal or premium, if any. • in relation to Vale, its relevant subsidiaries (any subsidiary which total assets are greater than 10% of the total consolidated assets of the group at the end of each fiscal year), and in regard to Vale Overseas, the occurrence of any default, in any transaction

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characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.

- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.
- insolvency or bankruptcy.
- Vale Overseas notes become illegal, generating the acceleration of over US\$ 50 million total.
- the collateral becomes invalid or unenforceable.

III. Interest: 4.375% per year

IV. Guarantee: There is no granting of collateral: Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or

Table of Contents

pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond VALE 2022. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York Mellon acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights.

Conditions to alter rights assured by the securities

The deed of issuance, allows, to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon the consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

None

Security

Eurobond VALE23

Quantity

Bonds are issued at the minimum value of EUR 100,000, always in multiples of EUR 1,000, above

Value

EUR 750,000,000

Issuing date

7/10/2012

Restriction to outstanding units

None.

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None.

Possibility of redemption

I. Possibilities of redemption:

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- Redemption by means of payment of premium, at any time, of all bonds or part of the bonds periodically, at issuer's criterion.
- Redemption due to changes in the tax law: if Vale is forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian tax law, Vale may redeem the entirety of the notes in advance.

II. Formula for calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Bund Rate (security return German Bund) + 0.45%

Table of Contents

- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

Characteristics of Bonds

I. Maturity date: 1/10/2023

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.
- in relation to Vale, its relevant Subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year): the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.
- failure from Vale to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.
- insolvency or bankruptcy.
- notes issued by Vale Overseas Limited become illegal, generating the acceleration of over US\$ 50 million total.

III. Interest: 3.75% per year.

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IV. Guarantee: The notes are obligations unsecured by Vale and do not hold privileges over other Vale unsecured debts.

V. If the credit is secured or subordinate: N/A.

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale.

- disposal of determined assets: Vale may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale.

- issuing new securities: Vale may issue, without the consent

Table of Contents

from the note holders, new notes according to the terms and conditions applicable to Eurobonds VALE23. In addition, Vale may issue new notes under other terms and conditions. Vale is entitled to collateralize debts by its subsidiaries,, without consent by the holders.

VII. The fiduciary agent (indicate the key terms of the contract): The Bank of New York Mellon acts as a trustee, *registrar, paying agent e transfer agent* of the notes within the scope of the deed of issuance and its main role is to secure investors' rights. The Bank of New York Mellon Trust (Japan), Ltd. acts as main *paying agent*, and the Bank of New York (Luxemburg) S.A. acts as *registrar* in Luxembourg, *paying agent* and *transfer agent*.

Conditions to alter rights assured by the securities

The deed of issuance, allows, at any time, with some exceptions, to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments may only be executed upon consent from the majority of the note holders for the value of the principal showing an open debt.

Other relevant characteristics

Bond issued by Vale S.A.

Security

Bonds VALE39(12)

Quantity

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.

Value

US\$ 1,000,000,000.00

Issuing date

11/10/09

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibilities of redemption

- Redemption by means of payment of premium, at any time, of all bonds or part of the notes, periodically, at Vale Overseas criterion.

- Redemption due to changes in the tax law: if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law, Vale Overseas may redeem the entirety of the notes in advance.

II. Formula for calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.40%

- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

Characteristics of Bonds

I. Maturity date: 11/10/39

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.
- in relation to Vale, its relevant subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.
- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale

(12) Bonds issued by subsidiary Vale Overseas Ltd.

Table of Contents

Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

- insolvency or bankruptcy.
- Vale Overseas notes become illegal, generating the acceleration of over US\$ 50 million total.
- the collateral becomes invalid or unenforceable.

III. Interest: 6.875% per year

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

IV. If the credit is secured or subordinate: N/A

V. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.
- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however

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that: i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; ii) no default event occurs as a result of the transaction; and iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing.
- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond VALE 2039. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

Conditions to alter rights assured by the securities

VII. the fiduciary agent, indicating the key terms of the contract: The Bank of New York acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights

The deed of issuance, allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

None

Table of Contents

Security	Bonds VALE19(13)
Quantity	Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.
Value	US\$ 1,000,000,000.00
Issuing date	9/15/2009
Restriction to outstanding units	None
Convertibility into shares or granting the right to subscribe or acquire issuer shares	None
Possibility of redemption	I. Possibilities of redemption

- Redemption by means of payment of premium, at any time, of all notes, or part of the notes, periodically, at Vale Overseas criterion.

- Redemption due to changes in the tax law: if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law, Vale Overseas may redeem the entirety of the notes in advance.

II. Formula for calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.30%

- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

Characteristics of Bonds

I. Maturity date: 9/15/19

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

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- in relation to Vale, its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.
- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.
- insolvency or bankruptcy.
- Vale Overseas notes become illegal, generating the acceleration of over US\$ 50 million total.
- the collateral becomes invalid or unenforceable.

III. Interest: 5.625% per year

(13) *Bonds* issued by subsidiary Vale Overseas Ltd

Table of Contents

IV. Guarantees: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing, without the consent from the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond VALE 2019. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

VII. The fiduciary agent: The Bank of New York acts as a *trustee* of the notes within the scope of the deed of issuance and its main role is to secure investors' rights.

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Conditions to alter rights assured by the securities

The deed of issuance, allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

None

Security

Bonds CVRD36(14)

Quantity

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.

Value

US\$ 2,500,000,000.00

Issuing date

11/21/2006

Restriction to outstanding units

None

(14) *Bonds* issued by subsidiary Vale Overseas Ltd

Table of Contents

Convertibility into shares or granting the right to subscribe or acquire issuer shares
Possibility of redemption

None

I. Possibilities of redemption

- Redemption by means of payment of premium, at any time, of all bonds or part of the bonds, periodically, at Vale Overseas criterion.

- Redemption due to changes in the tax law: if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law, Vale Overseas may redeem the entirety of the notes in advance.

II. For calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.35%

- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

Characteristics of *Bonds*

I. Maturity date: 11/21/36

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

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- in relation to Vale, its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.
- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.
- insolvency or bankruptcy.
- Vale Overseas notes become illegal, generating the acceleration of over US\$ 50 million total.
- the collateral becomes invalid or unenforceable.

III. Interest: 6.875% per year

IV. Guarantees: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

Table of Contents

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond VALE 2036. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights.

Conditions to alter rights assured by the securities

The deed of issuance, allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

Security

Bonds CVRD34B(15)

Quantity

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.

Value

US\$ 300,000,000.00

Issuing date

11/02/2005

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibilities of redemption: Redemption due to changes in the tax law: if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law, Vale Overseas may redeem the entirety of the notes in advance.

II. For calculating value of redemption: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

(15) *Bonds* issued by subsidiary Vale Overseas Ltd.

Table of Contents

Characteristics of Bonds

I. Maturity date: 01/17/34

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

- in relation to Vale, its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.

- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

- insolvency or bankruptcy.

- If Vale Overseas notes become illegal, the trustee, upon guidance from at least 25% of bond holders in outstanding principal, will also immediately include the amount of principal, interest accrued and any due and unpaid amounts.

III. Interest: 8.25% per year.

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably

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and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing,
 - without the consent from the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

Table of Contents

Moody's must confirm in advance that the new issuance from Vale Overseas will not result in a lower rating granted for other open notes.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond VALE 2034. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The JPMorgan Chase Bank acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights

The deed of issuance, allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

None

	Security
Quantity	
Value	
Issuing date	
Restriction to outstanding units	
Convertibility into shares or granting the right to subscribe or acquire issuer shares	
Possibility of redemption	

CVRD17(16) Bonds

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.

US\$ 1,250,000,000.00

11/21/2006

None

None

I. Possibilities of redemption

- Redemption by means of payment of premium, at any time, of all bonds or part of the bonds periodically, at Vale Overseas criterion.

- Redemption due to changes in the tax law: if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law, Vale Overseas may redeem the entirety of the notes in advance.

II. Formula for calculating value of redemption:

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- Redemption by means of payment of premium: The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.25%.
- Redemption due to changes in the tax law: The redemption value

(16) Bonds issued by Vale Overseas Ltd. subsidiary

Table of Contents

Characteristics of Bonds

will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

I. Maturity date: 01/23/17

Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

- in relation to Vale, its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.

- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

- insolvency or bankruptcy.

- Vale Overseas notes become illegal, generating the acceleration of over US\$ 50 million total.

- the collateral becomes invalid or unenforceable.

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III. Interest: 6.25% per year.

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.
- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).
- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may

Table of Contents

not contract any other type of loan or financing without the trustee's consent as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond CVRD2017. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights. The deed of issuance, allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders..

Other relevant characteristics

None

Security

CVRD16(6) Bonds

Quantity

Bonds are issued at the minimum value of US\$ 100,000, always in multiples of US\$ 1,000.

Value

US\$ 1,000,000,000.00

Issuing date

01/10/2006

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibility of redemption: Redemption due to changes in the tax law: Vale Overseas may only redeem the entirety of the notes in advance if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law.

Characteristics of Bonds

II. Formula for calculating value of redemption: The redemption value will be 100% of the principal value plus interests accrued up to the time of redemption.
I. Maturity date: 01/11/16

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any

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amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.
- in relation to Vale, its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.
- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or

Table of Contents

Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

- insolvency or bankruptcy.
- If an event occurs that turns Vale Overseas notes illegal, the trustee as instructed by at least 25% of the note holders for the value of the principal showing an open debt, also declares the value of the principal, the interests accrued and any amount unpaid due immediately.

III. Interest: 6.25% per year

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.
- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- **contracting of new debt:** there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing without the trustee's consent as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- **issuing new securities:** Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond CVRD 2016. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

Conditions to alter rights assured by the securities VII. The fiduciary agent, indicating the key terms of the contract: The JPMorgan Chase Bank acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights. The deed of issuance allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics None.

Security

CVRD34 Bonds

Quantity

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.

Value

US\$ 500,000,000.00

Table of Contents

Issuing date	01/15/2004
Restriction to outstanding units	None
Convertibility into shares or granting the right to subscribe or acquire issuer shares	None

Possibility of redemption

I. Possibilities of redemption: Redemption due to changes in the tax law: Vale Overseas may only redeem the entirety of the notes in advance if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law.

II. Formula for calculating value of redemption: The redemption value will be 100% of the principal value plus interests accrued up to the time of redemption.

Characteristics of Bonds

I. Maturity date: 01/17/34

Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.
- in relation to Vale, its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.
- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.
- insolvency or bankruptcy.

- If an event occurs that turns Vale Overseas notes illegal, the trustee as instructed by at least 25% of the note holders for the value of the principal showing an open debt, also declares the value of the principal, the interests accrued and any amount unpaid due immediately.

III. Interest: 8.25% per year.

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.
- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders,

Table of Contents

participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing without the trustee's consent as instructed by at least 25% of the note holders for the value of the principal showing an open debt. Moody's must confirm in advance that the new issuance from Vale Overseas will not result in a lower rating granted for other open notes.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond VALE 2034. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The JPMorgan Chase Bank acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights. The deed of issuance allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

None

Security

CVRD13(17) Bonds

Quantity

Bonds are issued at the minimum value of US\$ 1,000 always in multiples of US\$ 1,000.

Value

US\$ 124,415,000.00

Issuing date

08/08/2003

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibilities of redemption: Redemption due to changes in the tax law: Vale Overseas may only redeem the entirety of the notes in advance if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or in Cayman tax law.

Characteristics of Bonds

II. Formula for calculating value of redemption: The redemption value will be 100% of the principal value plus interests accrued up to the time of redemption.

I. Maturity date: 08/15/13

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note

(17) Bonds issued by Vale Overseas Ltd. subsidiary

Table of Contents

holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

- in relation to Vale, its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year) and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.

- failure from Vale or Vale Overseas to comply with their covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

- insolvency or bankruptcy.

- If an event occurs that turns Vale Overseas notes illegal, the trustee as instructed by at least 25% of the note holders for the value of the principal showing an open debt, also declares the value of the principal, the interests accrued and any amount unpaid due immediately.

III. Interest: 9% per year

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.
- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).
- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing without the trustee's consent as instructed by at least 25% of the note holders for the value of the principal showing an open debt. Moody's must confirm in advance that the new issuance from Vale Overseas will not result in a lower rating granted for other open notes.
- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond CVRD13. In addition, Vale

Table of Contents

Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, debts from its subsidiaries and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The JPMorgan Chase Bank acts as main paying agent, registrar, and trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights. The deed of issuance allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments may be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

In January 2006, Vale Overseas reacquired through a public offering part of its outstanding debt instruments (CVRD13). The holders of approximately US\$ 176 million principal, out of an outstanding total US\$ 300 million adhered to the offering. Vale Overseas reacquired and subsequently paid off all the instruments offered.

Security

CVRD18 Eurobonds

Quantity

Bonds are issued at the minimum value of EUR 50,000, always in multiples of EUR 1,000.

Value

EUR 750,000,000

Issuing date

03/24/2010

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibilities of redemption:

- Redemption by means of payment of premium, at any time, of all bonds or part of the bonds, periodically, at Vale's criterion.

- Redemption due to changes in the tax law: Vale may pay the entirety of the notes in advance if Vale is forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian tax law.

II. Formula for calculating value of redemption:

- Redemption by means of payment of premium: The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Bund Rate (German Bund instruments) + 0.25%.

Characteristics of Bonds

- b) Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

I. Maturity date: 03/24/2018

II. Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.
- in relation to Vale and its subsidiaries (subsidiaries with total assets exceeding 10% of the total consolidated assets of the group at the end of each fiscal year): the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.

Table of Contents

- failure from Vale to comply with its covenants in relation to the note and this failure persists 60 days after Vale has received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

- insolvency or bankruptcy.

- notes issued by Vale Overseas Limited become illegal, generating the acceleration of over US\$ 50 million total.

- the collateral becomes invalid or unenforceable.

III. Interest: 4.375% per year

IV. Guarantee: The notes are obligations unsecured by Vale and do not hold privileges over other Vale unsecured debts.

V. If the credit is secured or subordinate: N/A.

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale.

- disposal of determined assets: Vale may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale, as

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applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale.
- issuing new securities: Vale may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Eurobonds CVRD18. In addition, Vale may issue new notes under other terms and conditions.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York Mellon acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights.

The deed of issuance allows amending the rights and obligations of Vale and the investors in the notes. Said amendments may only be executed by Vale and the trustee with the consent from 100% or the majority of the note holders for the value of the principal showing an open debt, pursuant to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

Bond issued by Vale S.A.

Security
Quantity
Value
Issuing date

CVRD20(18) Bonds

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.
US\$ 1,000,000,000.00
09/15/2010

(18) Bonds issued by Vale Overseas Ltd. subsidiary

Table of Contents

Restriction to outstanding units None

Convertibility into shares or granting the right to subscribe or acquire issuer shares None

Possibility of redemption

I. Possibilities of redemption:

- Redemption by means of payment of premium, at any time, of all bonds or part of the bonds, periodically, at Vale Overseas' criterion.

- Redemption due to changes in the tax law: Vale Overseas may redeem the entirety of the notes in advance if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or Cayman tax law.

II. Formula for calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.30%.

- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

Characteristics of Bonds

I. Maturity date: 09/15/2020

II. Possibility of Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

- in relation to Vale, its Relevant Subsidiaries (any subsidiary in which the proportional participation of Vale in the total assets of the subsidiary exceeds 10% of the total consolidated assets of the company at the end of the last financial year), and Vale Overseas: the occurrence of any default, in any transaction characterized as debt, that

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exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.

- failure from Vale or Vale Overseas to comply with its covenants in relation to the note and this failure persists 60 days after Vale or Vale Overseas have received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.
- insolvency or bankruptcy.
- Vale Overseas notes become illegal, generating the acceleration of over US\$ 50 million total.
- the collateral becomes invalid or unenforceable.

III. Interest: 4.625% per year

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

Table of Contents

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bonds CVRD20. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, its subsidiaries' debts and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights. The deed of issuance allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

None

Security

CVRD39(19) Bonds

Quantity

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.

Value

US\$ 750,000,000.00

Issuing date

05/10/2010

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibilities of redemption:

- Redemption by means of payment of premium, at any time, of all bonds or part of the bonds, periodically, at Vale Overseas' criterion.
- Redemption due to changes in the tax law: Vale Overseas may redeem the entirety of the notes in advance if Vale or Vale Overseas are forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian or Cayman tax law.

(19) Bonds issued by Vale Overseas Ltd. subsidiary

Table of Contents

Characteristics of Bonds

II. Formula for calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.40%.

- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

I. Maturity date: 11/10/2039

II. Possibility of Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

- in relation to Vale, its subsidiaries (any subsidiary in which the proportional participation of Vale in the total assets of the subsidiary exceeds 10% of the total consolidated assets of the company at the end of the last financial year): the occurrence of any default, in any transaction characterized as debt, that exceeds, in total, US\$ 50 million and this default results in the effective acceleration of the debt.

- failure from Vale or Vale Overseas to comply with its covenants in relation to the note and this failure persists 60 days after Vale has received communication from the trustee or from at least 25% of the note holders reporting the non-compliance of the obligations. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale or Vale Overseas, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

- insolvency or bankruptcy.

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- notes issued by Vale Overseas become illegal, generating the acceleration of over US\$ 50 million total.

- the collateral becomes invalid or unenforceable.

III. Interest: 6.875% per year

IV. Guarantee: There is no granting of collateral. Vale guarantees, irrevocably and unconditionally, the full payment of the principal, interests and other amounts owed in relation to this note, in the event Vale Overseas fails to pay.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale. However, Vale Overseas may not declare or pay any dividends, without the trustee's consent, as instructed by at least 25% of the note holders for the value of the principal showing an open debt.

- disposal of determined assets: Vale and Vale Overseas may not, without the consent from the majority of the note holders, participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale and Vale Overseas in the deed of issuance; (ii) no default event occurs as a result of the transaction; and (iii) Vale or Vale Overseas, as

Table of Contents

applicable, provide their trustee with a certification and a legal opinion attesting that the consolidation or transfer of assets meet the requirements set forth in item (ii).

- contracting of new debt: there are no restrictions to contracting new debts by Vale. Vale Overseas may issue debts instruments within the scope of the deed of issuance, but Vale Overseas may not contract any other type of loan or financing.

- issuing new securities: Vale Overseas may issue, without the consent from the note holders, new notes according to the terms and conditions applicable to Bond CVRD39. In addition, Vale Overseas may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, its subsidiaries debts and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York Mellon acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors rights

The deed of issuance allows to amend the rights and obligations of Vale Overseas and the investors in the notes. Said amendments must be executed upon consent from 100% or the majority of the note holders for the value of the principal showing an open debt, according to the type of amendment. Some non-material clarifications or amendments may be made without the consent from the note holders.

Other relevant characteristics

None

Security

Bonds VALE42

Quantity

Bonds are issued at the minimum value of US\$ 2,000, always in multiples of US\$ 1,000.

Value

US\$ 1,500,000,000.00

Issuing date

09/11/2012

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibilities of redemption:

- Redemption by means of payment of premium, at any time, of all bonds or part of the bonds, periodically, at Vale's criterion.

- Redemption due to changes in the tax law: Vale may redeem the entirety of the notes in advance if Vale is forced to maintain values greater than 15%, in the event of payment of interest over note, due to changes in the Brazilian tax law.

II. Formula for calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.45%.

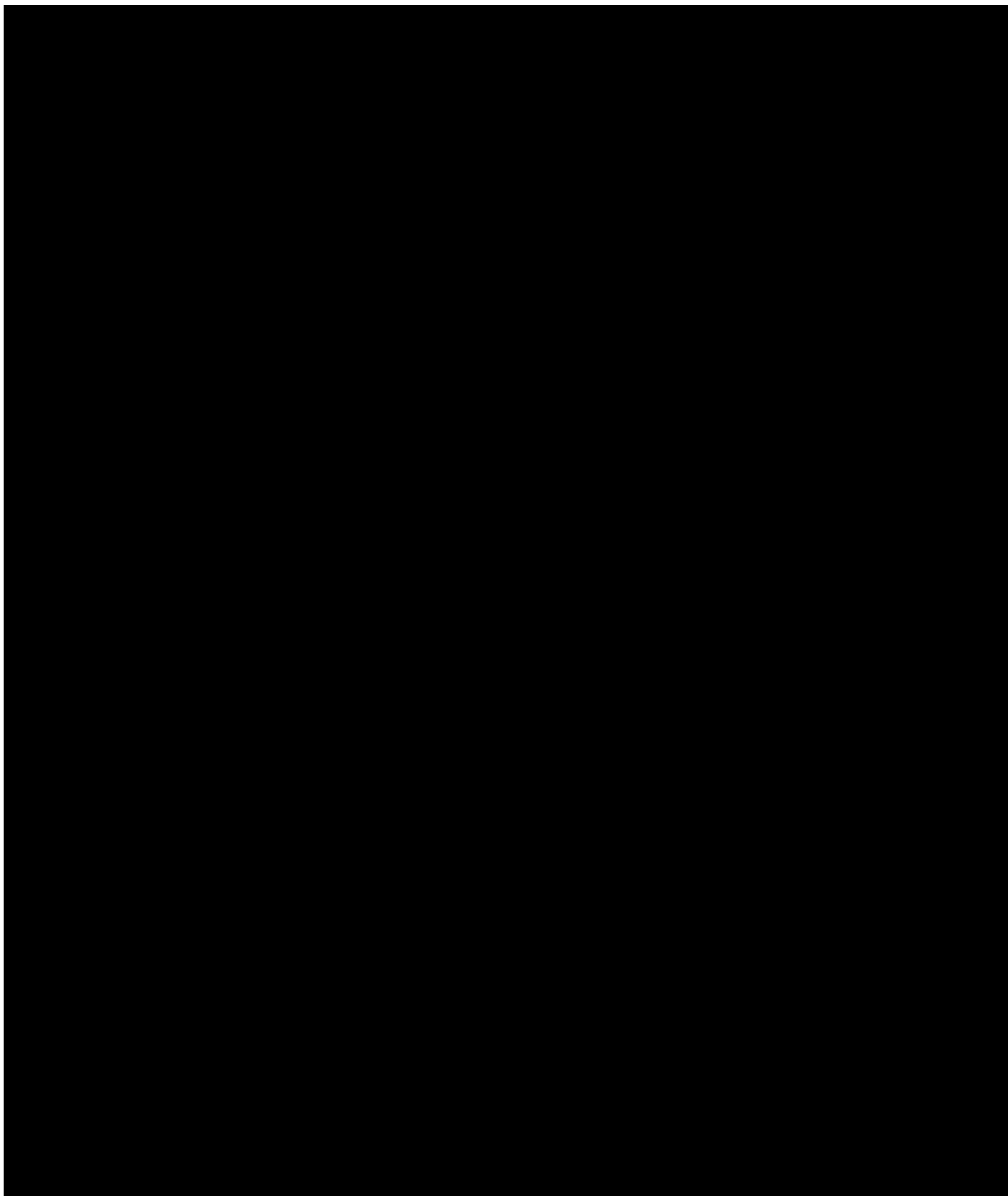
- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests accrued up to the date of redemption.

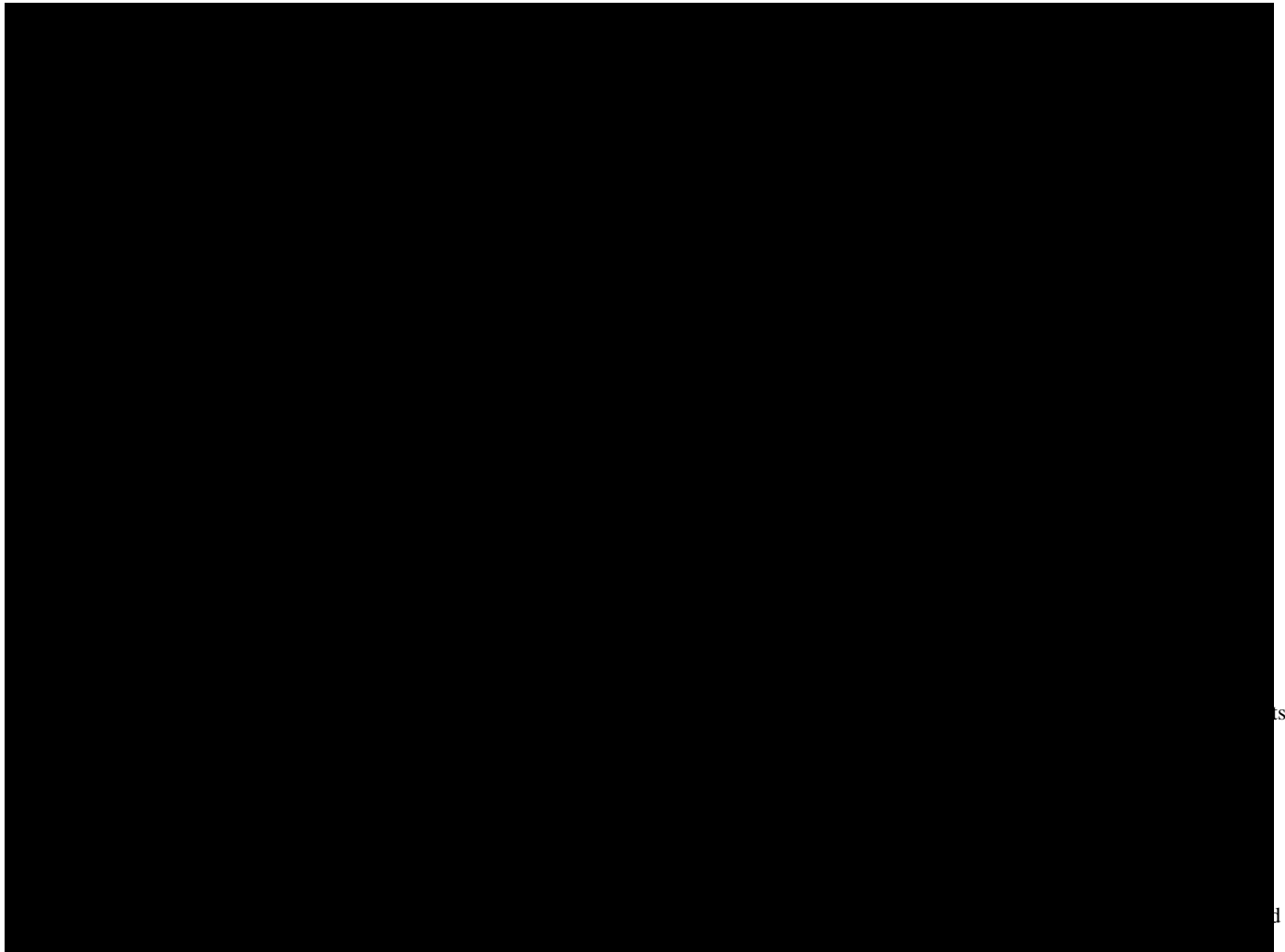
Characteristics of Bonds

I. Maturity date: 9/11/2042

II. Possibility of Early maturity: if a default event occurs, which is not cured or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

Table of Contents





Conditions to alter rights assured by the securities

The deed of issuance allows, at any time, with some exception, amending the rights and obligations of Vale and the investors in the notes. Said amendments may only be executed by Vale and the trustee with the consent from 100% or the majority of the note holders for the value of the principal showing an open debt.

Table of Contents

<p>Security</p> <p>Quantity</p> <p>Value</p> <p>Issuing date</p> <p>Restriction to outstanding units</p> <p>Convertibility into shares or granting the right to subscribe or acquire issuer shares</p> <p>Possibility of redemption</p>	<p>Inco 2015(20) Bonds</p> <p>bonds are issued at the minimum value of US\$ 1,000.</p> <p>US\$ 300,000,000.00</p> <p>09/26/2003</p> <p>None</p> <p>None</p> <p>I. Possibilities of redemption:</p> <ul style="list-style-type: none"> • Redemption by means of payment of premium, at any time, at Vale Canada's criterion. • Redemption due to changes in the tax law: if Vale Canada is forced to maintain additional values to note holders, due to changes in the Canadian tax law. <p>II. Formula for calculating value of redemption:</p> <ul style="list-style-type: none"> • The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.35% • Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests to any additional values established by the Canadian tax law up to the date of redemption. <p>I. Maturity date: 10/15/2015</p> <p>II. Possibility of Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:</p> <ul style="list-style-type: none"> • failure to pay interests, principal or premium, if any.
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Characteristics of Bonds

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- in relation to Vale Canada: the occurrence of any default, in any transaction characterized as debt that results in the effective acceleration of the debt.
- insolvency or bankruptcy by Vale Canada in Canada.
- failure from Vale Canada to comply with its covenants in relation to the notes. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale Canada, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

III. Interest: 5.7% per year

IV. Guarantee: There is no granting of collateral by Vale Canada or its Relevant subsidiaries.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale Canada.

(20) Bonds issued by Vale Inco Ltd. subsidiary (Vale Inco).

Table of Contents

- disposal of determined assets: Vale Canada may not participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale Canada in the deed of issuance; (ii) no default event occurs as a result of the transaction; (iii) Vale Canada provides its trustee with a certification attesting to the consolidation or transfer of assets; and (iv) if the company created by means of this consolidation or a third party acquisition of said assets were outside Canada, the Canadian tax law requirements must be met.

- contracting of new debt: there are no restrictions to contracting new debts by Vale Canada.

- issuing new securities: Vale Canada may issue, without the consent from the note holders, new notes according to the deed of issuance terms and conditions. In addition, Vale Canada may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, its subsidiaries' debts and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York Mellon acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights.

The deed of issuance allows, with certain exceptions, to amend the rights and obligations of Vale Canada and the investors in the notes. Depending on the type of changes, said amendments may be executed by Vale Canada and the trustee with the consent from the note holders. In most cases, the note holders may approve changes to the note with the consent from 66.67% of the note holders for the value of the principal showing an open debt. Some non-material clarifications and changes may be made without the note holders' consent.

Other relevant characteristics

None

Security

Inco 2032(21) Bonds

Quantity

Bonds are issued at the minimum value of US\$ 1,000.

Value

US\$ 400,000,000.00

Issuing date

09/23/2002

Restriction to outstanding units

None

Convertibility into shares or granting the right to subscribe or acquire issuer shares

None

Possibility of redemption

I. Possibilities of redemption:

- Redemption by means of payment of premium, at any time, at Vale Canada's criterion.

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- Redemption due to changes in the tax law: if Vale Canada is forced to maintain additional values to note holders, due to changes in the Canadian tax law.

II. Formula for calculating value of redemption:

- The redemption value will be 100% of the principal value or the sum of the current value of the interest installments and the remaining principal, whichever is the greatest, deducted at the date of redemption at the rate equivalent to Treasury + 0.40%.
- Redemption due to changes in the tax law: The redemption value will be equal to 100% of the principal value plus the interests to any additional values established by the Canadian tax law up to the date of redemption.

(21) Bonds issued by Vale Inco. subsidiary.

Table of Contents

Characteristics of Bonds

I. Maturity date: 09/15/32

II. Possibility of Early maturity: if a default event occurs, which is not corrected or condoned, the trustee, as instructed by at least 25% of the note holders for the value of the principal showing an open debt, must declare the principal value, the interests accrued and any amount unpaid immediately due. The default events are described in the deed of issuance, including, but not limited to:

- failure to pay interests, principal or premium, if any.

- in relation to Vale Canada: the occurrence of any default, in any transaction characterized as debt that results in the effective acceleration of the debt.

- insolvency or bankruptcy by Vale Canada in Canada.

- failure from Vale Canada to comply with its covenants in relation to the notes. These obligations include, but are not limited to: (i) obligation not to conduct a merger or sale of the entirety of the assets or a significant part of the assets of Vale Canada, with some exceptions and (ii) limitations to granting collateral in debt transactions, with some permitted exceptions.

III. Interest: 7.2% per year

IV. Guarantee: There is no granting of collateral by Vale Canada or its Relevant subsidiaries.

V. If the credit is secured or subordinate: N/A

VI. Possible restrictions imposed on the issuer, in relation to:

- distribution of dividends: There are no restrictions on dividend distribution by Vale Canada.
- disposal of determined assets: Vale Canada may not participate in a merger with another company or transfer all or a significant part of its assets to a third party, except, however that: (i) the company created by this consolidation or a third party that acquired said assets undertakes to make timely payments of the principal and interests and other obligations from Vale Canada in the deed of issuance; (ii) no default event occurs as a result of the transaction; (iii) Vale Canada provides its trustee with a certification attesting to the consolidation or transfer of assets; and (iv) if the company created by means of this consolidation or a third party acquisition of said assets were outside Canada, the Canadian tax law requirements must be met.
- contracting of new debt: there are no restrictions to contracting new debts by Vale Canada.
- issuing new securities: Vale Canada may issue, without the consent from the note holders, new notes according to the deed of issuance terms and conditions. In addition, Vale Canada may issue new notes under other terms and conditions. Vale has the right to guarantee, without the consent from the note holders, its subsidiaries' debts and issue its own debt.

Conditions to alter rights assured by the securities

VII. The fiduciary agent, indicating the key terms of the contract: The Bank of New York Mellon acts as a trustee of the notes within the scope of the deed of issuance and its main role is to secure investors' rights.

The deed of issuance allows, with certain exceptions, to amend the rights and obligations of Vale Canada and the investors in the notes. Depending on the type of changes, said amendments may be executed by Vale Canada and the trustee with the consent from the note holders. In most cases, the note holders may approve changes to the note with the consent from 66.67% of the note holders for the value of the principal showing an open debt. Some non-material clarifications and changes may be made without the note holders' consent.

Table of Contents

Other relevant characteristics None

407

Table of Contents**19.1 Information about buy-back plans for shares of the issuer**

Meeting date	Buy-back period	Available reserves and profits (Reais)	Type	Class	Quantity envisaged (units)	Percentage in relation to outstanding	Approved amount purchased (units)	Weighted Average Price	Quote factor	% purcha
Other characteristics										
6/30/2011	8/02/2011 to 11/25/2011	63,394,491,000.00	Common		84,814,902	6.65461	39,536,080	44.45	R\$ per unit	46.614
			Preferred	Class A	102,231,122	5.326880	81,451,900	40.91	R\$ per unit	79.674

Pursuant to CVM Instruction No. 10/80, according to amendment and article 14, XXXII of Vale's bylaws, on June 30, 2010, the Board approved the acquisition by Vale and/or any of its subsidiaries of common shares and class A preferred shares issued by Vale to stay in the Treasury or depository receipts representing such shares, for the purpose of cancellation of the same after the end of the buy-back period for a value of up to US\$3.0 billion, comprising up to 84,814,902 common shares and up to 102,231,122 preferred shares corresponding to 6.65% and 5.33% respectively of the total amount of outstanding shares of each type. The deadline for completion of operations was 180 days from the date of authorization. This program was executed in full by November 25, 2011. 39,536,080 common shares were acquired at an average price of US\$26.25 per share and 81,451,900 preferred shares at an average price of US\$24.09 per share, totaling US\$3.0 billion, and corresponding, respectively, to 3.10% and 4.24% of the outstanding (free float) common and preferred shares, based on the equity position at the inception date of the program. Purpose of the program: use of the excess of the resources held in cash, maximizing the value for shareholders. The program followed strictly the Brazilian law in force, and the acquisition of shares was made in the stock market at market value. The institutions that took part as intermediary parties in the buy-back were: (a) BRADESCO S.A. CTVM 72 (Headquarters), Avenida Paulista, no. 1450 - 7th floor, in the city of São Paulo, SP, Postal Code: 01.310-100; (b) ITAÚ CV S.A. 114 (Headquarters), Avenida Brigadeiro Faria Lima, no. 3400 - 10th floor, in the city of São Paulo, SP, Postal Code: 04.538-132; (c) ÁGORÁ CTVM S.A. 39 (Headquarters), Praia de Botafogo, no. 300 - 6th floor, in the city of Rio de Janeiro, RJ, Postal Code: 22.250-040; (d) FATOR S.A. CV 131 (Headquarters), Rua Doutor Renato Paes de Barros, no. 1017 - 11th and 12th floors, in the city of São Paulo, SP, Postal Code: 04.530-001; (e) CREDIT SUISSE BRASIL S.A. CTVM - 45 (Headquarters), Avenida Brigadeiro Faria Lima no. 3064, 13th floor, in the city of São Paulo, SP, Postal Code: 01.451-000; (g) SANTANDER CCVM S.A. 27 (Headquarters), Avenida Presidente Juscelino Kubitschek, no. 2041 and 2235 - 24th floor, in the city of São Paulo, SP, Postal Code: 04.543-011; and (g) J.P.MORGAN CCVM S.A. 16 (Headquarters), Avenida Brigadeiro Faria Lima no. 3729, 13th floor, in the city of São Paulo, SP, Postal Code: 04.538-905.

Meeting date	Buy-back period	Available reserves and profits (Reais)	Type	Class	Quantity envisaged (units)	Percentage in relation to outstanding	Approved amount purchased (units)	Weighted Average Price	Quote factor	% purcha
Other characteristics										
9/23/2010	9/24/2010 to 3/22/2011	62,121,595,000.00	Common		64,810,513	5.000000	21,682,700	53.09	R\$ per unit	33.4555
			Preferred	Class A	98,367,748	5.000000	48,197,700	46.44	R\$ per unit	48.9974

Table of Contents

Pursuant to CVM Instruction No. 10/80, as amended, and article 14, XXXII of Vale's bylaws, on September 23, 2010, the Board approved the acquisition by Vale and its subsidiaries of common shares and class A preferred shares issued by Vale to stay in the Treasury and for later cancellation or disposal in an amount up to US\$ 2 billion, involving up to 64,810,513 common shares and up to 98,367,748 preferred shares, corresponding to 5% of the total amount of outstanding shares of each type. The deadline for completion of operations was 180 days from the date of authorization, after the blackout period for trading. This program was executed in full by October 11, 2010. 21,682,700 common shares were acquired at an average price of US\$31.31 per share and 48,197,700 preferred shares at an average price of US\$27.40 per share, totaling US\$2.0 billion, and corresponding, respectively, to 1.67% and 2.45% of the outstanding (free float) common and preferred shares, based on the equity position at the inception date of the program. Purpose of the program: use of the excess of resources held as cash for the optimal allocation of capital and maximize the value for shareholders. The program followed strictly the Brazilian law in force, and the acquisition of shares was made in the stock market at market value. The institutions that took part as intermediary parties in the buy-back were: Bradesco S.A. CTVM - Avenida Paulista, 1450 - 7th floor, São Paulo/SP; Itaú CV S.A. - Avenida Brigadeiro Faria Lima, 3400 - 10th floor,- São Paulo/SP; Ágora CTVM S.A. - Praia de Botafogo, 300 - 6th floor, Rio de Janeiro/RJ; Fator S.A. CV - Rua Doutor Renato Paes de Barros, 1017 - 11th and 12th floors, São Paulo/SP; Credit Suisse Hedging-Griffo CV S.A. - Avenida Presidente Juscelino Kubitschek, 1830 - 6th and 7th floors - Torre IV, São Paulo/SP; Magliano S.A. CCVM - Rua Bela Cintra, 986 - 2nd floor, São Paulo/SP, CEP: 01415-000; Credit Suisse Brasil S.A. CTVM - Avenida Brigadeiro Faria Lima 3064, 13th floor, São Paulo/SP; Santander CCVM S.A. - Avenida Presidente Juscelino Kubitschek, 2041, 2235 24th floor, São Paulo/SP; J.P.Morgan CCVM S.A. - Avenida Brigadeiro Faria Lima 3729, 13th floor, São Paulo/SP.

Table of Contents**19.2 - Movement of the securities held in the Treasury**

Fiscal year ended 12/31/2012

Shares

Type of share	Class of preferred share	Description of securities		
Common				
Movement	Quantity	Total Value (Reais)	Weighted average price	
Initial balance	86,911,207	3,127,473,524.11	35.98	
Acquisition	0	0	0	
Disposal	15,839,725	569,987,717.72	35.98	
Cancellation	0	0	0	
Final balance	71,071,482	2,557,485,806.39	35.98	

Type of share	Class of preferred share	Description of securities		
Common	Class A Preferred			
Movement	Quantity	Total Value (Reais)	Weighted average price	
Initial balance	181,099,814	6,791,066,981.50	37.50	
Acquisition	0	0	0	
Disposal	40,242,122	1,509,040,456.56	37.50	
Cancellation	0	0	0	
Final balance	140,857,692	5,282,026,524.94	37.50	

Fiscal year ended 12/31/2011

Shares

Type of share	Class of preferred share	Description of securities		
Common				
Movement	Quantity	Total Value (Reais)	Weighted average price	

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Initial balance	47,375,394	1,369,103,063.00	28.90
Acquisition	39,536,080	1,758,382,460.35	44.48
Disposal	267	11,999.24	44.94
Cancellation	0	0	0.00
Final balance	86,911,207	3,127,473,524.11	35.98

Type of share	Class of preferred share	Description of securities
Common	Class A Preferred	

Movement	Quantity	Total Value (Reais)	Weighted average price
Initial balance	99,649,571	3,457,023,752.00	34.69
Acquisition	81,451,900	3,334,043,647.72	40.93
Disposal	1,657	418.22	0.25
Cancellation	0	0.00	0.00
Final balance	181,099,814	6,791,066,981.50	37.50

Table of Contents

Fiscal year ended 12/31/2010

Shares

Type of share	Class of preferred share	Description of securities		
Common				
Movement	Quantity	Total Value (Reais)	Weighted average price	
Initial balance	74,997,899	635,116,088.00	8.47	
Acquisition	21,682,700	1,151,602,061.00	53.11	
Disposal	49,305,205	417,615,086.00	8.47	
Cancellation	0	0.00	0.00	
Final balance	47,375,394	1,369,103,063.00	28.90	

Type of share	Class of preferred share	Description of securities		
Common	Class A Preferred			
Movement	Quantity	Total Value (Reais)	Weighted average price	
Initial balance	77,581,904	1,835,578,895.00	23.66	
Acquisition	48,197,700	2,239,681,438.00	46.47	
Disposal	26,130,033	618,236,581.00	23.66	
Cancellation	0	0.00	0.00	
Final balance	99,649,571	3,457,023,752.00	34.69	

19.3 Information about the securities held in the Treasury on the date of the close of the last fiscal year

Security	Shares	Description of the securities		Weighted average price of acquisition (in R\$)	Quote factor	Date of acquisition	Percentage in relation to outstanding shares
Type of Share	Class of Share	Quantity (units)					
Preferred	Preferred Class A	684,192		24.66	R\$ per unit	11/11/2008	0.070999588
Preferred	Preferred Class A	1,362,200		24.21	R\$ per unit	11/12/2008	0.067070484
Preferred	Preferred Class A	1,291,600		23.27	R\$ per unit	11/12/2008	0.06359436
Preferred	Preferred Class A	795,700		23.66	R\$ per unit	11/13/2008	0.039177789
Preferred	Preferred Class A	481,600		24.47	R\$ per unit	11/17/2008	0.023712484
Preferred	Preferred Class A	94,500		24.49	R\$ per unit	11/17/2008	0.004652886
Preferred	Preferred Class A	741,300		22.76	R\$ per unit	11/19/2008	0.036499303
Preferred	Preferred Class A	370,100		22.87	R\$ per unit	11/19/2008	0.018222571
Preferred	Preferred Class A	2,216,900		21.04	R\$ per unit	11/21/2008	0.109153249
Preferred	Preferred Class A	989,100		23.37	R\$ per unit	11/24/2008	0.048700203

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Preferred	Preferred Class A	1,409,500	25.03	R\$ per unit	11/28/2008	0.069399389
Preferred	Preferred Class A	412,000	28.01	R\$ per unit	1/30/2009	0.020285596
Preferred	Preferred Class A	359,400	32.12	R\$ per unit	1/30/2009	0.017695736
Preferred	Preferred Class A	4,780,300	44.68	R\$ per unit	9/24/2010	0.237952536
Preferred	Preferred Class A	4,521,400	45.33	R\$ per unit	9/27/2010	0.225065079
Preferred	Preferred Class A	3,900,000	45.78	R\$ per unit	9/28/2010	0.194133191
Preferred	Preferred Class A	3,990,000	45.96	R\$ per unit	9/29/2010	0.198613187
Preferred	Preferred Class A	183,600	46.50	R\$ per unit	9/29/2010	0.009139193
Preferred	Preferred Class A	3,750,000	46.19	R\$ per unit	9/30/2010	0.18666653

Table of Contents

Preferred	Preferred Class A	3,169,000	46.53	R\$ per unit	10/01/2010	0.157745662
Preferred	Preferred Class A	1,050,000	47.53	R\$ per unit	1/01/2010	0.052266628
Preferred	Preferred Class A	3,030,000	46.56	R\$ per unit	10/04/2010	0.150826556
Preferred	Preferred Class A	1,079,800	46.82	R\$ per unit	10/04/2010	0.053750005
Preferred	Preferred Class A	3,950,000	47.06	R\$ per unit	10/05/2010	0.196622078
Preferred	Preferred Class A	177,800	47.77	R\$ per unit	10/05/2010	0.008850482
Preferred	Preferred Class A	4,090,000	47.65	R\$ per unit	10/06/2010	0.203590962
Preferred	Preferred Class A	4,290,300	47.31	R\$ per unit	10/07/2010	0.213561443
Preferred	Preferred Class A	352,500	47.60	R\$ per unit	10/07/2010	0.017546654
Preferred	Preferred Class A	4,290,000	47.46	R\$ per unit	10/08/2010	0.21354651
Preferred	Preferred Class A	1,593,000	47.61	R\$ per unit	10/11/2010	0.079295942
Preferred	Preferred Class A	930,900	45.28	R\$ per unit	8/05/2011	0.0485056651
Preferred	Preferred Class A	1,620,900	43.52	R\$ per unit	8/08/2011	0.0844589457
Preferred	Preferred Class A	2,460,400	41.64	R\$ per unit	8/09/2011	0.1282021038
Preferred	Preferred Class A	2,525,200	40.07	R\$ per unit	8/10/2011	0.1315785858
Preferred	Preferred Class A	2,189,200	37.53	R\$ per unit	8/11/2011	0.1140709013
Preferred	Preferred Class A	1,076,400	37.89	R\$ per unit	8/12/2011	0.0560871177
Preferred	Preferred Class A	2,579,200	39.24	R\$ per unit	8/17/2011	0.1343923208
Preferred	Preferred Class A	861,600	39.85	R\$ per unit	8/18/2011	0.0448947052
Preferred	Preferred Class A	680,000	39.55	R\$ per unit	8/19/2011	0.0354322186
Preferred	Preferred Class A	1,552,000	39.92	R\$ per unit	8/22/2011	0.0808688283
Preferred	Preferred Class A	1,730,600	38.10	R\$ per unit	8/23/2011	0.0901749963
Preferred	Preferred Class A	710,000	37.73	R\$ per unit	8/24/2011	0.0369954047
Preferred	Preferred Class A	760,000	37.76	R\$ per unit	8/25/2011	0.0396007149
Preferred	Preferred Class A	1,270,600	37.98	R\$ per unit	8/26/2011	0.0662061425
Preferred	Preferred Class A	1,812,100	38.45	R\$ per unit	8/29/2011	0.0944216519
Preferred	Preferred Class A	1,567,000	38.28	R\$ per unit	8/30/2011	0.0816504213
Preferred	Preferred Class A	1,548,500	38.54	R\$ per unit	8/31/2011	0.0806864565
Preferred	Preferred Class A	901,800	39.87	R\$ per unit	9/01/2011	0.0469893746
Preferred	Preferred Class A	648,900	40.00	R\$ per unit	9/02/2011	0.0338117156
Preferred	Preferred Class A	1,826,000	39.53	R\$ per unit	9/09/2011	0.0951459281
Preferred	Preferred Class A	2,037,300	40.34	R\$ per unit	9/12/2011	0.1061559690
Preferred	Preferred Class A	392,700	42.25	R\$ per unit	9/12/2011	0.0204621062
Preferred	Preferred Class A	1,863,300	41.42	R\$ per unit	9/13/2011	0.0970894895
Preferred	Preferred Class A	2,774,000	40.82	R\$ per unit	9/14/2011	0.1445426093
Preferred	Preferred Class A	1,759,500	41.75	R\$ per unit	9/19/2011	0.0916808655
Preferred	Preferred Class A	1,794,500	42.70	R\$ per unit	9/20/2011	0.0935045827
Preferred	Preferred Class A	1,985,000	42.91	R\$ per unit	9/21/2011	0.1034308145
Preferred	Preferred Class A	1,718,300	43.16	R\$ per unit	9/22/2011	0.0895340900
Preferred	Preferred Class A	2,220,000	44.36	R\$ per unit	9/23/2011	0.1156757724
Preferred	Preferred Class A	2,340,000	44.17	R\$ per unit	9/26/2011	0.1219285168
Preferred	Preferred Class A	1,690,000	41.58	R\$ per unit	9/27/2011	0.0880594844
Preferred	Preferred Class A	3,280,000	41.11	R\$ per unit	9/28/2011	0.1709083484
Preferred	Preferred Class A	2,561,600	41.38	R\$ per unit	11/08/2011	0.1334752516
Preferred	Preferred Class A	983,600	42.06	R\$ per unit	11/09/2011	0.0512516620
Preferred	Preferred Class A	1,508,000	41.76	R\$ per unit	11/14/2011	0.0785761553
Preferred	Preferred Class A	2,457,800	41.89	R\$ per unit	11/16/2011	0.1280666276
Preferred	Preferred Class A	1,620,000	42.22	R\$ per unit	11/17/2011	0.0844120501

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Table of Contents

Preferred	Preferred Class A	1,082,600	42.01	R\$ per unit	11/18/2011	0.0564101762
Preferred	Preferred Class A	2,627,000	42.33	R\$ per unit	11/21/2011	0.1368829973
Preferred	Preferred Class A	3,550,000	41.60	R\$ per unit	11/22/2011	0.1849770234
Preferred	Preferred Class A	3,600,000	41.04	R\$ per unit	11/23/2011	0.1875823336
Preferred	Preferred Class A	2,700,000	40.69	R\$ per unit	11/24/2011	0.1406867502
Preferred	Preferred Class A	2,430,000	41.01	R\$ per unit	11/25/2011	0.1266180752
Preferred	Preferred Class A	1,879,000	39.97	R\$ per unit	11/28/2011	0.0979075569
Preferred	Preferred Class A	750,000	39.85	R\$ per unit	11/29/2011	0.0390796528
Preferred	Preferred Class A	596,400	39.26	R\$ per unit	11/30/2011	0.0310761399
Common		627,402	27.06	R\$ per unit	11/06/2008	0.060029011
Common		1,182,800	27.36	R\$ per unit	11/07/2008	0.037174784
Common		502,000	27.15	R\$ per unit	11/07/2008	0.015777597
Common		855,000	28.65	R\$ per unit	11/10/2008	0.026872202
Common		561,000	28.49	R\$ per unit	11/10/2008	0.017631936
Common		926,000	27.22	R\$ per unit	11/11/2008	0.029103695
Common		158,600	27.93	R\$ per unit	11/12/2008	0.004984715
Common		965,100	26.73	R\$ per unit	11/12/2008	0.030332588
Common		1,038,000	25.72	R\$ per unit	11/13/2008	0.032623796
Common		283,700	26.15	R\$ per unit	11/17/2008	0.008916542
Common		219,500	27.00	R\$ per unit	11/17/2008	0.00689877
Common		145,500	26.97	R\$ per unit	11/19/2008	0.004572989
Common		322,700	25.07	R\$ per unit	11/19/2008	0.010142292
Common		580,800	24.93	R\$ per unit	11/21/2008	0.01825424
Common		651,400	23.41	R\$ per unit	11/24/2008	0.020473161
Common		425,800	27.36	R\$ per unit	11/27/2008	0.013382671
Common		347,400	27.98	R\$ per unit	11/28/2008	0.0109186
Common		60,000	32.72	R\$ per unit	1/30/2009	0.001885769
Common		1,021,100	50.67	R\$ per unit	9/24/2010	0.048425964
Common		660,000	51.57	R\$ per unit	9/24/2010	0.031300691
Common		572,600	51.50	R\$ per unit	9/27/2010	0.027155721
Common		980,000	52.56	R\$ per unit	9/27/2010	0.046476784
Common		520,000	51.83	R\$ per unit	9/28/2010	0.024661151
Common		1,640,000	52.70	R\$ per unit	9/28/2010	0.077777476
Common		680,000	52.07	R\$ per unit	9/29/2010	0.032249197
Common		1,933,000	52.88	R\$ per unit	9/29/2010	0.091673086
Common		420,000	52.19	R\$ per unit	9/30/2010	0.019918622
Common		1,603,000	52.96	R\$ per unit	9/30/2010	0.07602274
Common		400,000	52.51	R\$ per unit	10/01/2010	0.018970116
Common		1,900,000	53.67	R\$ per unit	10/01/2010	0.090108051
Common		1,748,000	52.92	R\$ per unit	10/04/2010	0.082899407
Common		1,700,000	54.38	R\$ per unit	10/05/2010	0.080622993
Common		647,000	53.86	R\$ per unit	10/06/2010	0.030684163
Common		1,685,500	54.83	R\$ per unit	10/06/2010	0.079935326
Common		630,000	53.44	R\$ per unit	10/07/2010	0.029877933
Common		2,182,500	53.81	R\$ per unit	10/07/2010	0.103505696
Common		640,000	53.55	R\$ per unit	10/08/2010	0.030352186
Common		120,000	53.60	R\$ per unit	10/11/2010	0.005691035
Common		421,200	49.77	R\$ per unit	8/02/2011	0.0330475395
Common		652,100	47.49	R\$ per unit	8/03/2011	0.0511640563
Common		491,000	48.21	R\$ per unit	8/03/2011	0.0385240786
Common		275,000	45.59	R\$ per unit	8/04/2011	0.0215766224
Common		1,425,200	45.42	R\$ per unit	8/04/2011	0.1118218266
Common		1,258,400	43.84	R\$ per unit	8/05/2011	0.0987346243

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Table of Contents

Common	1,090,200	40.81	R\$ per unit	8/08/2011	0.0855375774
Common	572,600	41.50	R\$ per unit	8/09/2011	0.0449264510
Common	874,400	42.67	R\$ per unit	8/12/2011	0.0686058133
Common	332,300	43.30	R\$ per unit	8/15/2011	0.0260724060
Common	382,100	42.87	R\$ per unit	8/16/2011	0.0299797361
Common	590,200	43.18	R\$ per unit	8/17/2011	0.0463073548
Common	546,000	44.04	R\$ per unit	8/17/2011	0.0428394031
Common	120,000	41.30	R\$ per unit	8/18/2011	0.0094152534
Common	578,000	41.08	R\$ per unit	8/18/2011	0.0453501374
Common	330,000	41.15	R\$ per unit	8/19/2011	0.0258919469
Common	496,900	41.29	R\$ per unit	8/22/2011	0.0389869952
Common	879,100	41.59	R\$ per unit	8/23/2011	0.0689745774
Common	632,100	42.08	R\$ per unit	8/24/2011	0.0495948474
Common	488,600	42.15	R\$ per unit	8/25/2011	0.0383357735
Common	498,900	42.32	R\$ per unit	8/26/2011	0.0391439161
Common	480,000	43.71	R\$ per unit	8/29/2011	0.0376610137
Common	323,200	43.95	R\$ per unit	8/30/2011	0.0253584159
Common	215,200	43.39	R\$ per unit	9/05/2011	0.0168846878
Common	1,140,300	43.99	R\$ per unit	9/06/2011	0.0894684457
Common	1,429,600	46.42	R\$ per unit	9/07/2011	0.1121670525
Common	700,000	45.61	R\$ per unit	9/08/2011	0.0549223117
Common	1,122,700	44.27	R\$ per unit	9/09/2011	0.0880875419
Common	78,100	44.77	R\$ per unit	9/09/2011	0.0061277608
Common	656,500	45.66	R\$ per unit	9/14/2011	0.0515092823
Common	776,100	46.58	R\$ per unit	9/15/2011	0.0608931516
Common	390,400	46.71	R\$ per unit	9/16/2011	0.0306309578
Common	619,400	47.02	R\$ per unit	9/19/2011	0.0485983998
Common	190,000	47.63	R\$ per unit	9/20/2011	0.0149074846
Common	1,114,000	48.19	R\$ per unit	9/20/2011	0.0874049360
Common	481,300	47.93	R\$ per unit	9/21/2011	0.0377630123
Common	766,980	46.56	R\$ per unit	9/21/2011	0.0601775923
Common	240,000	44.91	R\$ per unit	9/22/2011	0.0188305069
Common	835,500	43.77	R\$ per unit	9/22/2011	0.0655537020
Common	240,000	44.28	R\$ per unit	9/23/2011	0.0188305069
Common	1,255,300	45.44	R\$ per unit	9/23/2011	0.0984913969
Common	1,992,500	43.96	R\$ per unit	11/02/2011	0.1563324372
Common	679,000	44.32	R\$ per unit	11/03/2011	0.0532746423
Common	422,700	45.23	R\$ per unit	11/04/2011	0.0331652302
Common	540,600	45.06	R\$ per unit	11/09/2011	0.0424157167
Common	437,100	45.14	R\$ per unit	11/10/2011	0.0342950606
Common	240,000	45.54	R\$ per unit	11/11/2011	0.0188305069
Common	180,000	45.29	R\$ per unit	11/14/2011	0.0141228801
Common	1,927,000	45.81	R\$ per unit	11/15/2011	0.1511932780
Common	450,000	45.76	R\$ per unit	11/16/2011	0.0353072004
Common	700,000	44.93	R\$ per unit	11/17/2011	0.0549223117
Common	2,434,000	43.97	R\$ per unit	11/18/2011	0.1909727237
Common	300,000	44.04	R\$ per unit	11/18/2011	0.0235381336
Common	625,000	42.97	R\$ per unit	11/21/2011	0.0490377783
Common	960,000	43.41	R\$ per unit	11/21/2011	0.0753220274
Common	616,300	43.64	R\$ per unit	11/22/2011	0.0483551724
Common	410,700	43.64	R\$ per unit	11/22/2011	0.0322237049
Common	320,000	42.64	R\$ per unit	11/23/2011	0.0251073425
Common	82,300	42.34	R\$ per unit	11/24/2011	0.0064572946
Common	230,000	41.82	R\$ per unit	11/25/2011	0.0180459024

Table of Contents**19.4 Other relevant information**

On February 19, 2001, there was approval, at the Extraordinary General Meeting, for the incorporation of shares held by minority shareholders in subsidiary Mineração da Trindade S.A (SAMITRI), without an increase in capital and without issuing new shares in Vale by using shares held in the Treasury, in accordance with the authorization by the CVM (Brazilian SEC) on December 13, 2000, pursuant to article 23 of the CVM Instruction No. 10 of February 14, 1980. As a result of the incorporation of Samitri shares into Vale's equity, the minority shareholders of Samitri received class A Vale preferred shares (PNA), issued by Vale and maintained in the Treasury by the Company, at a rate of one (1) share issued by Vale per lot of 628 (six hundred and twenty-eight) Samitri shares. With this operation, Samitri became a wholly owned subsidiary of Vale. Those holding Samitri shares in the name of the bearer, who contact Vale, will have their shares updated and converted into Vale PNA shares, in the proportion informed above. In this way, the Treasury shares have been disposed of in the period from 2009 to 2011 (43,800 PNA shares in 2009, 24 PNA shares in 2010, and no shares in 2011) on account of the upgrade of bearer bonds for the minority shareholders of Samitri.

The mandatorily convertible notes due June 15, 2010 of its wholly-owned subsidiary Vale Capital Limited (Vale Capital), series RIO and RIO P, were converted into common and preferred American Depositary Shares (ADSs), respectively. The conversion rate, which is the number of ADSs deliverable upon conversion of each note on the applicable date, was 1.9026 common ADSs per Series RIO and 2.2351 preferred ADSs per Series RIO P. The American Depositary Shares, into which the Series RIO Notes were converted, represented an aggregate of 49,305,205 common shares, and the Series RIO P Notes represented an aggregate of 26,130,033 preferred class A shares. Those shares were held in the treasury and were sold to be used in the conversion of the notes.

The mandatorily convertible notes due June 15, 2012 of its wholly-owned subsidiary Vale Capital II, series VALE and VALE.P, were converted into American Depositary Shares (ADSs), representing common and class A preferred shares, respectively. The conversion rate, which is the number of ADSs deliverable upon conversion of each note on the applicable date, was 2.7082 common shares per Series VALE and 3.0993 preferred shares per Series VALE. P. The American Depositary Shares, into which the Series VALE Notes were converted, represented an aggregate of 15,836,884 common shares, and the Series VALE. P Notes represented an aggregate of 40,241,968 class A preferred shares. Those shares were held in the treasury and were sold to be used in the conversion of the notes.

Table of Contents

20.1 Information about the securities trading policy

Date of approval 1/19/2011

Office and/or position held by related parties The Company

Valepar S.A, (controller of the Company)

Representatives of the shareholders of Valepar S.A.

Publicly-held companies controlled by the Company

Members of the Board of Directors of Valepar

Members of the Board of Directors of Vale

Members of the Supervisory Board of Vale

Members of the Statutory Audit Committee of Vale

Members of the Advisory Committees to the Board of Directors of Vale, Executive Officers, global directors, department directors, general managers, executive coordinators, coordinators, managers, and other employees who, because of their office, function, or position in the Company and its subsidiaries, have knowledge of inside information.

Main characteristics Vale's Trading Policy, formulated in accordance with the CVM Instruction No. 358/02 and Vale's Code of Ethical Conduct, aims to contribute to the orderly trading of securities issued by Vale, or its related companies, removing any suspected misuse of information concerning material events or facts about Vale (Insider Information).

The Trading Policy also aims to contribute to compliance with laws and regulations of the United States and Hong Kong, where Vale shares are traded in the stock exchanges in the form of ADRs and HDRs, respectively, that prohibit insider trading / dealing (using insider information for their own benefit), including the practice of tipping (providing insider information for third parties to benefit from it).

For purposes of the laws and regulations of the United States of America, a person engages in practices of (i) insider trading if he buys or sells securities using relevant and not publicly-disclosed information (material non-public information) that has been obtained or used in breach of a duty of trust and confidentiality (duty of trust and confidence), and (ii) tipping if he provides the same type of information to third parties who end up taking advantage of this information to perform insider trading.

For purposes of the laws and regulations of Hong Kong, a person engages in practices of insider dealing when, having material non-public information, he negotiates or encourages third parties to

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negotiate Vale's securities, or he provides the same type of information to third parties knowing, or expecting, that they will, indeed, negotiate Vale's securities.

The prohibitions contained in this Trading Policy cover any acquisition, sale, or transfer of securities issued or guaranteed by Vale.

Companies opened under the control of Vale shall adopt the Company's Trading Policy, applying, where appropriate, the same prohibitions and/or restrictions disciplined by Vale's Trading Policy.

Any violation of the provisions of the Company's Trading Policy shall be deemed a breach of the Code of Ethical Conduct of Vale and be subject to the penalties provided by law and responsibility for losses and damages caused to Vale and to third parties, in addition to any proceedings and penalties established in the Code of Ethical Conduct of Vale.

Blackout periods for trading and description of the oversight procedures

Related Persons cannot, in addition to what is already provided for in the CVM Instruction n^o 358/02, trade securities issued by Vale and publicly quoted companies controlled by it:

- i. Thirty (30) days prior and two (2) days after the dissemination or publication of the quarterly and annual financial statements of

Table of Contents

Vale;

ii. In the period between the decision taken by the shareholders of Valepar S.A., controller of Vale, to: (i) modify Vale capital by means of share subscription; (ii) approve a program of acquisition or disposal of Vale shares issued by Vale itself; and (iii) distribute dividends or interest on equity, bonuses in shares or their derivatives, or splits, and the publication of the respective public notices and/or advertisements or newsletters; and

iii. During any other period designated by the Executive Director responsible for Vale investor relations, with the prior authorization by the Chairman of the Board of Directors at the request of the CEO.

Related Persons may trade securities issued by Vale, as long as they observe the blackout periods mentioned above, with the goal of long-term investment, it being recommended they maintain ownership of securities issued by the Company for a minimum period of six (6) months.

20.2 - Other relevant information

The provisions of Vale's Trading Policy are also applied when the trading by Related Persons is carried out for their own direct and/or indirect benefit using, for example:

- A partnership directly or indirectly controlled by Related Persons;

- Third parties who have a management agreement, trust or financial asset investment portfolio management agreement with Related Persons;

- Proxies or agents of Related Persons; and

- Spouses who are not legally separated, partners and any other dependant included in the annual tax return of Related Persons.

Related Persons must guarantee, whenever possible and if they are forbidden from trading, that the above-mentioned natural and legal persons will also refrain themselves from trading securities issued by the Company.

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Besides the Related Persons, the Company's Trading Policy also applies to any director who leaves the Company before the public disclosure of business or event initiated during his administration, and will extend for six months thereafter.

The restrictions contained above shall not apply to transactions made by investment funds where the Related Persons are shareholders provided that the (a) investment funds are not exclusive, and (b) trading decisions of the administrator of the fund may not be influenced by the shareholders.

Members of the Board, its advisory committees, the Executive Board and the Supervisory Board of Vale must communicate in writing pursuant to Article 11 of CVM Instruction 358/02, to the Executive Director of Investor Relations and through him to the CVM and the stock exchanges where Vale shares are listed for trading (a) the amount of securities issued by Vale and subsidiaries or their parent-held companies, as well as the property of his spouse, unless it is actually or legally separated, of a partner, any dependent included in the annual income tax and partnerships directly or indirectly controlled by them, and (b) changes in the above-mentioned positions.

The announcement referred to in the above paragraph above shall be made (a) on the first business day after taking office, and (b) within 5 (five) days after each trade and shall contain at least the following information (i) name and identification of the sender, indicating the registration number in the National Registry of Legal Entities or the Roll of Individual Taxpayers if they are domiciled for tax purposes in Brazil, (ii) quantity of each type and class, in case of shares, and the other characteristics for other securities, as well as the identification of the issuer and the balance of the position held before and after the negotiation, and (iii) form, price and date of the transactions.

The Executive Director of Investor Relations, in turn, shall submit to the CVM and the stock exchanges the information received, on an individual and consolidated basis, as the case may be, within 10 (ten) days

Table of Contents

after the end of the month when the changes to the positions held take place, or on the month when the taking of office takes place.

The Related Persons must sign their Declaration of Compliance, pursuant to article 16, § 1 of the CVM Instruction 358/02, in accordance with the model contained as an annex to the Company's Trading Policy, which will remain filed at Vale's headquarters while they continue their relationship with Vale, and at least for five years after their departure.

Table of Contents

21.1 - Description of the rules, bylaws, or internal procedures regarding the disclosure of information

On 5/24/2012, the Board of Directors of Vale approved the amendment of its Policy on Disclosure of Relevant Event or Fact (Disclosure Policy). This Disclosure Policy governs the disclosure of information, which by its nature may generate Relevant Events or Facts and is based on the following basic principles: (i) transparency, balanced information, fair treatment, and respect for the rights of investors; (ii) adherence to the best global practices in investor relations; and (iii) obedience to specific legislation of Brazil, the United States, France, and Hong Kong; to the regulations of the Brazilian *Comissão de Valores Mobiliários* [Securities and Exchange Commission] (CVM), the U.S. Securities and Exchange Commission (SEC) of the United States of America, the *Autorité des Marchés Financiers* (AMF) of France, and the *Securities and Futures Commission* (SFC) of Hong Kong, hereinafter referred to as regulatory agencies , and to the rules of the stock exchanges where the securities issued by Vale are listed and traded.

The Disclosure Policy applies to the controlling shareholder, to members of the Board of Directors, Audit Committee, and Advisory Committees, to the Executive Officers and executives of Vale, to the administrators of its controlled companies, and to any person who, by virtue of his office, function, or position in Vale and/or its controlled companies, has knowledge of information regarding a Relevant Event or Fact about Vale.

In addition, Vale has an Information Disclosure Board, chaired by the Chief Executive Officer of Vale which is comprised of the following members: Executive Director of Finances and Investor Relations (DRI); the General Consul, Director of the Investor Relations Department, and the Director General of the Controller. The main functions of the Information Disclosure Board are: (i) to verify the existence of a Relevant Event or Fact to be disclosed and to ensure its full, simultaneous, broad and immediate general disclosure, especially in markets trading securities issued by Vale; (ii) to supervise and approve communication to general capital markets of a Relevant Event or Fact, as well as evaluate the need of eventual correction or revision; (iii) to give an opinion as to the possibility of delaying the disclosure of a Relevant Event or Fact, if its immediate disclosure puts a legitimate interest of Vale at risk; (iv) to oversee the developments or changes in the business of Vale or its controlled companies to determine if there is need for disclosure of a Relevant Event or Fact; and, (v) to analyze possible rumors and speculation in the market about Vale to evaluate the need to publish a response and/or a statement.

Open capital companies under Vale control should adopt this Disclosure Policy, with adjustments that might be required by local legislation and regulation applicable to such companies and markets where the respective securities are traded.

21.2 Description of the disclosure policy for relevant events or facts and of the procedures for maintaining confidentiality of relevant information not disclosed

In accordance with the Disclosure Policy, Vale will make public information of a strategic, administrative, technical, business, financial, and/or economic nature that might affect prices of its securities and/or influence decisions by investors to hold them, buy them, sell them, or exercise any rights inherent in the position of holders of securities (Relevant Event or Fact) according to applicable legislation and regulation.

The shareholders controlling Vale, the members of the Board of Directors, the Audit Committee, and the Advisory Committees, the Executive Officers and executives of Vale shall report any information regarding a Relevant Event or Fact of which they have knowledge to DRI, who will make arrangements for its prompt disclosure.

All relevant information that is not yet public knowledge and is disclosed, intentionally or not, to analysts, investors, journalists or any person who is not (i) member of Vale's Board of Directors, Fiscal Council or Executive Committees; (ii) member of the Executive Board; or (iii) employee of Vale and its subsidiaries directly engaged with the matter, should be immediately made public according to applicable rules and regulations.

The disclosure of a relevant event or fact should be made before the opening or after the close of the trading sessions of the stock exchanges where the securities issued by Vale are traded. If disclosure is imperative during a trading session, the Executive Director for Finances and Investor Relations (DRI) shall request the relevant regulatory agencies and the stock exchanges, where the securities issued by Vale are listed and traded, to suspend trading until adequate disclosure occurs.

Access to information about Relevant Events or Facts, before their public disclosure, is limited to professionals directly involved with the matter under consideration. These professionals shall store this information in an adequate manner, maintain its confidentiality until its public disclosure, and insure that their subordinates and service providers subject to obligations of confidentiality do so, as well, and assume

Table of Contents

joint responsibility with them if this is not complied with. The professionals referred to are, in addition, subject to the agreement of confidentiality maintained with Vale.

Events or facts may, exceptionally, not be disclosed if the controlling shareholders and/or the directors of Vale view that disclosure endangers legitimate company interests. In this case, the administrators can submit to the CVM their decision to keep material facts or events confidential, on an exception basis, because the company understands they present a risk, if disclosed, to the legitimate interests of the organization.

All rumors and/or speculation in the market about Vale and/or its controlled companies, which have as their topic possible Relevant Events or Facts, shall be reported to the Information Disclosure Board. If some information about a Relevant Event or Fact escapes control or if there is an abnormal oscillation of the quote, price, or volume traded of securities, the DRI shall disclose that information publicly and immediately.

Also, under pertinent laws and regulations of the regulatory agencies and the stock exchanges, where the shares issued by Vale are listed and traded, Vale will make simultaneous disclosures of information to the capital market using the following communication channels:

- Publication of Relevant Events or Facts in newspapers of general circulation habitually used by Vale;

- Circulation of press releases, simultaneously in Portuguese, English, and Chinese, shall be immediately filed, following the specific rules of the regulatory agencies and stock exchanges, where the shares issued by Vale are listed and traded (as well as posted in the web sites of the regulatory agencies and/or stock exchanges), with custodial agents, escrow agents for *American Depositary Receipts* (ADRs) and *Hong Kong Depositary Receipts* (HDRs), capital market participants, and news agencies;

- Telephone conferences and webcasts held regularly every quarter for the disclosure of results, or in exceptional cases, if that becomes necessary. The realization of these events will be announced in advance, publicly, to capital markets, indicating the date, time, and telephone numbers for connection. Such conferences and webcasts will be recorded and available on the Vale's website (www.vale.com) in the Investor Relations section, for ninety (90) days following the event;

- Public meetings at the discretion of the administration of Vale. Vale will publicly announce in advance the date, time, and place of such events;

- Intensive use of Vale's website's Investor Relations section, with versions in Portuguese, English, and Chinese, for the immediate availability of press releases, presentations made at meetings and conferences, operational information on corporate events, payments of shareholder compensation, issuance of debt securities, annual reports, quarterly and annual financial statements, documents filed with regulatory agencies and stock exchanges, where the shares issued by Vale are listed and traded, quotes for Vale stock and Depositary Receipts, and answers to frequently asked questions compiled by participants in the capital market; and

- Active participation in investor conferences held in Brazil and abroad.

21.3 - Administrators responsible for implementation, maintenance, evaluation, and supervision of the information disclosure policy

The Executive Director for Investor Relations is the one responsible for the disclosure of information regarding relevant events or facts, although the other Associated Persons respond jointly in cases of non-compliance with the rules on disclosure.

21.4 - Other relevant information

The Information Disclosure Board may, occasionally, approve the disclosure of forecasts for the behavior of the markets where the Company operates, presenting with clarity, the assumptions that support such estimates, together with the following note:

This communication may contain statements that express Vale's expectations about future events or results. All statements, when based on future expectations rather than on historical facts, involve various risks and uncertainties. Vale cannot guarantee that such statements will prove correct. Such risks and uncertainties include factors relating to: (a) countries where we have operations, principally Brazil and Canada; (b) the world economy; (c) capital markets; (d) the price of minerals and metals and their dependence on global industrial production, which is cyclical by nature; and (e) the degree of global

Table of Contents

*competition in the markets in which Vale operates. For additional information about factors that could cause results to differ from those estimated by Vale, please consult the reports filed with the Brazilian Securities and Exchange Commission (CVM), the French Autorité des Marchés Financiers (AMF), the U.S. Securities and Exchange Commission (SEC), at the Stock Exchange of Hong Kong Limited, and, in particular, the factors discussed in the sections *Estimates and projections* and *Risk factors* in the Annual Report - Form 20F of Vale.*

The controlling shareholders, direct or indirect, the shareholders who elect members of the Board of Directors or of the Audit Committee, and any other natural or legal person, or group of persons, acting jointly or representing the same interest, who purchase or sell a share participation that corresponds, directly or indirectly, to a variation, for increase or decrease, of five percent (5%) or more of the kind or class of shares representative of the capital stock of Vale, shall, under the terms of Article 12 of Instruction CVM 358, immediately send to Vale correspondence containing the information required in the cited Article 12.

The Executive Director for Investor Relations shall immediately inform the respective regulatory agencies and stock exchanges of the information received, as well as update the section corresponding of the Reference Form, within a maximum of seven (7) business days.

Table of Contents

22.1 - Acquisition or disposal of any significant assets that do not belong to the normal operations of the issuer

There were no acquisitions or disposals of any significant assets that do not belong to the normal operations of the Company during the last 3 financial years.

22.2 - Significant changes in the running of the issuer

There were no significant changes in the running of the Company's business during the last three financial years.

22.3 - Significant contracts executed by the issuer and its subsidiaries which are not directly connected to its operations.

There were no significant contracts executed by the Company and/or its subsidiaries with third parties, nor directly connected to its operations in the last three financial years.

22.4 - Other information that the Company deems relevant

There is no other relevant information for this item 22 .

Table of Contents

Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: May 20, 2013

By:

Vale S.A.
(Registrant)

/s/ Roberto Castello Branco
Roberto Castello Branco
Director of Investor Relations