



# PARTICIPATING DEBENTURES 1H21

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Any additional information about the participating debentures, including the Prospectus for Public Trading of Participating Debentures, can be obtained on our website, [www.vale.com/Investors/Equity](http://www.vale.com/Investors/Equity) and Debt/Participating debentures, from GDC Partners Serviços Fiduciários DTVM Ltda. as fiduciary agent for the debentures, [www.gdcdtvm.com.br](http://www.gdcdtvm.com.br), and from the CVM (Brazilian Securities and Exchange Commission).

# First half of 2021 (1H21)

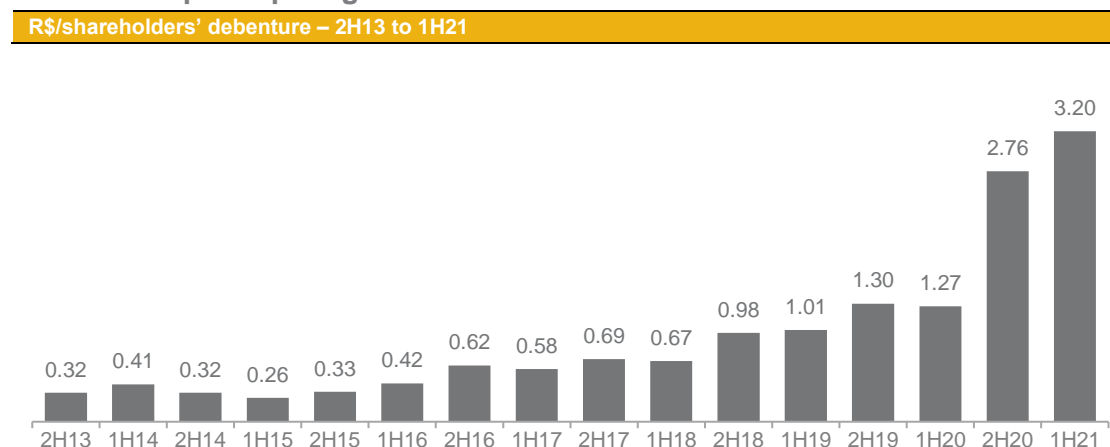
Rio de Janeiro, September 30, 2021 – Vale will pay today, R\$ 1,244,023,727.47, equivalent to R\$ 3.201633595 per participating debenture<sup>1</sup>, related to the total premium for the period between January and June of 2021 (1H21). The financial settlement will occur on October 1<sup>st</sup>, 2021.

The total premium for 1H21 refers to (i) 1.80% of the net revenues from the sale of iron ore fines from the Northern System and (ii) 1.25% of the net revenues from the sale of copper concentrate from the Sossego mine.

## Participating debentures premium

6-month period ending on June 30 <sup>th</sup> , 2020 (R\$)	
Premium on iron ore from the Northern System	1,220,944,896.71
Premium on copper concentrate	23,078,830.76
Premium on disposal of mining rights	0.00
<b>Total premium</b>	<b>1,244,023,727.47</b>
<b>Premium per debenture</b>	<b>3.201633595</b>

## Premium of participating debentures



Income tax will be charged on the amount to be paid to debenture holders, as fixed-income investments, applying the rate in relation to the individual situation of the beneficiary, with the exception of those who can provide legal, unequivocal, and proof that they are exempt or subject to a differentiated taxation.

<sup>1</sup> In our previous reports, we referred to the participating debenture as "shareholders debenture".

## Annual premium of participating debentures

Year	Per debenture (R\$)	Total amount (R\$)
2011	0.057	22,372,791.36
2012	0.057	22,260,404.79
2013	0.341	132,642,793.33
2014	0.732	284,859,604.30
2015	0.594	230,899,093.47
2016	1.043	405,149,990.84
2017	1.270	493,550,875.87
2018	1.654	642,842,084.48
2019	2.316	900,017,354.07
2020	4.034	1,567,329,193.88
1H21	3.202	1,244,023,727.47

# Iron ore

In 1H21, sales of iron ore totaled 125.6 Mt out of which 83.9 Mt correspond to the sales volumes in the Northern System. Sales of Vale's iron ore, net of maritime freight costs, totaled R\$ 106.0 billion in 1H21, out of which R\$ 73.1 billion correspond to the Northern System. After applying the discounts provided in the Deed of Debentures to calculate the net revenues, among which R\$ 3.1 billion are related to transportation expenses, and the percentage of 1.8%, the value of the premium related to net revenues of iron ore from the Northern System is R\$ 1,220.9 million.

## Premium on iron ore

R\$ million	1H21	2H20	1H20	2H19	1H19
Net sales revenues from the Northern System <sup>1</sup>	67,830.3	58,257.6	26,650.4	27,730.0	21,265.1
% basis for calculation	1.8%	1.8%	1.8%	1.8%	1.8%
<b>Premium on iron ore (R\$ million)</b>	<b>1,220.9</b>	<b>1,048.6</b>	<b>479.7</b>	<b>499.1</b>	<b>382.8</b>

<sup>1</sup> Gross sales minus expenses with transport and insurance and taxes on sales, which include taxes and contributions levied on sales separately, or on billing or gross revenues from sales, as well as the financial compensation due to the Brazilian Federal Government, States and Municipalities.

In Vale's Southeastern System, iron ore sales from the mineral deposits covered by the Private Deed for Participating Debentures totaled 1.489 billion metric tons until June 30<sup>th</sup>, 2020, an increase of 20 million metric tons in relation to December 31<sup>st</sup>, 2020. Vale's expectation, based on the operational resumption plan and on the sales plan for iron ore originated from the mining rights covered by the Deed of Debenture, is that the accumulated sales volumes of 1.7 billion metric tons of the Southeastern System will be reached between 2024 and 2025, threshold from which the condition for the payment of the premium, under the terms of the Deed, would be fulfilled. However, such forecast may not be confirmed, implying in the anticipation or postponement of the aforementioned date in order to obtain the cumulative sales levels.

## Copper concentrate

In 1H21, sales of copper concentrate from Sossego totaled 133 thousand metric tons, 23.8% lower than the 174 thousand metric tons in the previous semester.

Sales of this product generated net revenues of R\$ 1,846.3 million, a 6.3% decrease when compared to the R\$ 1,969.7 million in the previous semester.

The premium related to the sales of copper concentrate is R\$ 23,078,830.76, calculated from the application of the 1.25% percentage on the net sales revenue of R\$ 1,846.3 million.

### Premium on copper concentrate

<i>R\$ million</i>	1H21	2H20	1H20	2H19	1H19
Net sales revenue <sup>1</sup>	1,846.3	1,969.7	1,139.0	553.1	895.4
% basis for calculation <sup>2</sup>	1.25%	1.25%	1.25%	1.25%	1.25%
<b>Premium on copper concentrate</b>	<b>23.1</b>	<b>24.6</b>	<b>14.2</b>	<b>6.9</b>	<b>11.2</b>

<sup>1</sup> Gross sales minus expenses with transport and insurance and taxes on sales, which include taxes and contributions levied on sales separately, or on billing or gross revenues from sales, as well as the financial compensation due to the Brazilian Federal Government, States and Municipalities.

<sup>2</sup> On April 15, 1997, Vale had a 50% stake in Mineração Serra do Sossego S.A. (Sossego). In 2001, Vale bought the remaining 50% of Sossego from Phelps Dodge do Brasil Mineração Ltda. Hence, the percentage basis for calculating premium is 2.5%, as described in the Deed of Issue of Debentures, multiplied by the Vale's share in the project at the time, 50%, and therefore, equal to 1.25%.

# Sales and leasing of mining rights

In 1H21 there was no leasing or sales of mining rights contained in the Deed of Debentures.

## Changes in mining rights

In 1H21, there was a change in the number of areas and hectares in comparison with the previous semester, with a reduction of 5 mining processes, totaling 29,765.55 hectares.

The mining right in force on June 30, 2021 covered by the Deed of Issue of the Debenture, amount 299 processes, equivalent to 1,526,619.34 hectares, and are shown in the attached Inventory of Mining rights (in Portuguese only).

## Projects under development

On July 28<sup>th</sup>, 2021, Vale announced its 2Q21 financial results, which are available on our website: <http://www.vale.com/EN/investors/information-market/quarterly-results/Pages/default.aspx>

The following table presents the evolution of the announced projects related to future income from participating debentures.

Project	Status	Related future premium
<b>Serra Sul 120 Mtpy</b> Development of new mining fronts in Serra Sul. Duplication of the long-distance conveyor belt, new processing lines and the expansion of stockpiling areas. Located in the Southern range of Carajás, Pará, Brazil. Estimated nominal capacity of 20 Mtpy.	<ul style="list-style-type: none"><li>The project, approved in August 2020, is at an early stage, progressing on equipment and service procurement activities and engineering plan improvements.</li></ul>	Payment of 1.8% of net sales as from the beginning of sales volumes.
<b>Northern System 240 Mtpy</b> Expansion of the S11D project, adding 10 Mtpy to the Northern System nominal capacity. It is located in the Southern range of Carajás, Pará, Brazil.	<ul style="list-style-type: none"><li>The project has achieved substantial progress on the project's mine front, starting construction work on conveyor lines and stockyards.</li><li>The project reached 80% of physical progress.</li></ul>	Payment of 1.8% of net sales as from the beginning of sales volumes.



## Attachment – Inventory of Mining Rights

Block	Municipality	State	Substance(s)	Hectares	Stage <sup>2</sup>
Cachoeiro	Cachoeiro do Itapemirim	ES	Limestone	74.91	Mining concession
Carajás	São Félix do Xingu, Parauapebas, Canaã dos Carajás, Marabá, Tucumã, Curionópolis e Água Azul do Norte	PA	Gold, silver, copper, iron, manganese, nickel, quartzite, granite, beryl, tin, tantalum	245,918.79	Mining concession
Corumbá	Ladário and Corumbá	MT	Iron	7,034.76	Mining concession
Espinhaço	Guanhães, Morro do Pilar, Sabinópolis, Senhora do Porto and Conceição do Mato Dentro	MG	Gold, iron	23,312.99	Mining concession
Gradaús	Rio Maria, Bannach, Cumarú do Norte, Ourilândia do Norte and Tucumã	PA	Tungsten, chromium, silver	29,253.00	Application to mine
Parú Jari Sul	Almeirim, Mazagão and Monte Alegre	AP, PA	Sapropelite, sulphur, phosphate, manganese, gold, titanium	1,164,223.50	Application to carry out research
Quadrilátero Ferrífero	Santa Bárbara, Mariana, Nova Lima, Itabira, Brumadinho, Ouro Preto, São Gonçalo do Rio Abaixo, Barão de Cocais, Caeté, Rio Piracicaba e Catas Altas	MG	Dolomite, iron, gold, arsenic, vanadium, quartz, manganese, silver, nickel	35,347.42	Mining concession
Riacho dos Machados	Rio Pardo de Minas and Riacho dos Machados	MG	Iron, zinc	11,100.25	Application to mine
Vazante	Vazante, Coromandel and Lagamar	MG	Zinc	10,353.72	Research permit

<sup>2</sup> Most advanced stage of all areas in the block.