



November 11, 2019

## TRANSFER REPORT

This Transfer Report has been prepared by Banco do Brasil S.A., for its role as Bond Administrator in connection with the issuance of (a) US\$ 2,000,000,000 aggregate principal amount of 6.25% Series 2014-1 Notes due 2024 (the "Series 2014-1 Notes"); (b) R\$ 2,400,000,000 aggregate principal amount of 16.25% Series 2014-2 Notes due 2022 (the "Series 2014-2 Notes"), (c) US\$ 1,100,000,000 aggregate principal amount of 6.75% Series 2014-3 Notes due 2027 (the "Series 2014-3 Notes"); and (d) US\$ 600,000,000 aggregate principal amount of 8.20% Series 2018-1 Notes due 2028 by Rio Oil Finance Trust and in accordance with the terms set forth in the Amended and Restated Indenture dated as of June 20, 2014, and as amended and restated as of April 03, 2018 (the "Indenture"), in the Amended and Restated Series 2014-1 Indenture Supplement and the Amended and Restated Series 2014-2 Indenture Supplement, dated as of June 20, 2014, and as amended and restated as of March 07, 2018, in the Amended and Restated Series 2014-3 Indenture Supplement dated as of November 21, 2014, and as amended and restated as of March 07, 2018, and in the Series 2018-1 Indenture Supplement dated as of April 19, 2018 (the "Indenture Supplements").

Some of the terms set forth in the Indenture and in the Indenture Supplements were amended by that certain Waiver and Amendment Agreement dated as of October 20, 2015 (the "First Waiver and Amendment Agreement"), by that certain Waiver and Amendment Agreement dated as of June 20, 2016 (the "Second Waiver and Amendment Agreement"), by that certain Waiver and Amendment Agreement dated as of October 11, 2016 (the "Third Waiver and Amendment Agreement"), by that certain Rescission and Amendment Agreement dated as of December 05, 2016 (the "Fourth Rescission and Amendment Agreement"), by that certain Rescission and Amendment Agreement dated as of December 04, 2017 (the "Fifth Rescission and Amendment Agreement"), and by that certain Waiver, Rescission and Amendment Agreement dated as of March 07, 2018 (the "Sixth Waiver, Rescission and Amendment Agreement"), and are fully reflected in all calculations of this Transfer Report.

The duties and obligations of Banco do Brasil S.A. is determined solely by the express provisions of the Indenture and the other Transactions Documents which it is a part, such as the responsibility for making all the calculations and determinations including, but not limited to, Transfer Amounts. Banco do Brasil S.A. shall not be liable except for the performance of such duties and obligations.

Banco do Brasil S.A. may conclusively rely as to the truth of the statements and the correctness of the opinions expressed in any Transaction Document and upon any statements, certificates or opinions furnished in writing to Banco do Brasil S.A. pursuant to any of the Transaction Documents and conforming to the requirements of the Transaction Documents. Banco do Brasil S.A. may conclusively rely upon, and shall be protected in acting or refraining from acting upon, and shall not be bound to make any investigation into the facts or matters stated in a written resolution, certificate, statement, instrument, opinion, report, notice, request, consent, order, note, Officer's Certificate, guaranty or other paper or document reasonably believed by it to be genuine and to have been signed or presented by the proper Person(s).

This Transfer Report is addressed exclusively to Citibank N.A. (the Indenture Trustee) to be used as Transfer Instructions of the Revenue Account Waterfall in each Transfer Date.

For the effects of this Transfer Report, the Reais Allocation Date is November 08, 2019, the Reais Transfer Date is November 08, 2019, the Allocation Date is November 11, 2019 and the Transfer Date is November 12, 2019.

The exchange rate for dollar/reais conversion used in this Transfer Report is R\$ 4.1525.



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## Defined Terms

“Allocation Date” shall mean, with respect to any Transfer Date, the Business Day which is immediately prior to such Transfer Date.

“Officer’s Certificate” shall mean, in the case any of the Issuer and the Sponsor and the Indenture Trustee, a certificate signed by an Authorized Officer or the president or chairman (or other equivalent officer) of such Person or acting on behalf of such Person.

“Person” shall mean any individual, corporation, company, partnership, joint venture, trust, estate, unincorporated association, Governmental Authority or other entity of whatever nature.

“Reais Allocation Date” shall mean, with respect of any Reais Transfer Date, the Business Day which is immediately prior to such Reais Transfer Date.

“Reais Transfer Date” shall mean each Business Day of each calendar month following a Business Day when, as of the Balance Transfer Time for the Bond Administrator, there are available funds in the Collections Account for allocation in accordance with the Indenture.

“Transaction Documents” shall mean, collectively, the Indenture, the Series 2014-1 Notes, the Series 2014-2 Notes, the Series 2014-1 Indenture Supplement, the Series 2014-2 Indenture Supplement, the Bill of Sale, the Royalties Rights Agreement, the Servicing Agreement, the Pledge Agreement, the Trust Agreement, the Initial Oil Revenue and Rights Bill of Sale, the Banco do Brasil Oil Revenue and Rights Bill of Sale, the Caixa Oil Revenue and Rights Bill of Sale, the Instruments and any Indenture Supplements with respect to future Series of Instruments, and any purchase agreement related to the Instruments.

“Transfer Amount” shall mean, as of any Transfer Date, any of the Issuer Expenses Transfer Amount, the Taxation Expenses Transfer Amount, the Servicer Fee Transfer Amount, the Reserve LC Expenses Transfer Amount, any Debt Service Reserve Account Transfer Amount, any Series Senior Interest Transfer Amount for any Series of Securities, any Series Senior Scheduled Principal Transfer Amount for any Series of Securities, any Series Senior Excess Scheduled Principal Transfer Amount for any Series of Securities, any Series Senior Accelerated Principal Transfer Amount for any Series of Securities, any Series Senior Excess Accelerated Principal Transfer amount for any Series of Securities, any Series Subordinated Interest Transfer Amount for any Series of Securities, any Series Subordinated Scheduled Principal Transfer Amount for any Series of Securities, and/or any Series Subordinated Accelerated Principal Transfer Amount for any Series of Securities, each as of such Transfer Date.

“Transfer Date” shall mean each Business Day of each calendar month when there are available funds in the Revenue Account for distribution in accordance with the Revenue Account Waterfall.

“Transfer Instructions” shall have the meaning set forth in Section 4.10(b) of the Indenture, as follow *“On any Reais Transfer Date, prior to transferring any amounts, the Bond Administrator shall (i) first calculate the allocation of funds assuming that (A) the full amount of funds available for transfer on such Reais Transfer Date are allocated for transfer in accordance with the Collections Account Waterfall and (B) the full amount of funds available for transfer on such Transfer Date are allocated for transfer on such Transfer Date in accordance with the Revenue Account Waterfall and the Bond Administrator shall reduce such calculations to written transfer instructions for such Reais Transfer Date, the related Transfer Date or a related Payment Date.”*



## Section (A) – Collections Revenue and Expense Breakdowns

The tables below show the total Collections and any other amounts received by the Servicer on such Reais Allocation Date, with respect to the Collateral of the transaction.

<b>RJS Oil Revenues and RJS Oil Revenue Rights</b>	<b>Amount</b>
Royalties – up to 5% (Law N° 7,990 of December 28, 1989)	R\$ 0.00
Royalties – more than 5% (Law N° 9,478 of August 6, 1997)	R\$ 0.00
Special Participations (Law N° 9,478 of August 6, 1997)	R\$ 2,157,627,820.47
FEP (Special Petroleum Fund) – Law N° 7,990 and Law N° 9,478	R\$ 0.00
<b>Total amount transferred to RJS Oil Revenues Dedicated Account</b>	<b>R\$ 2,157,627,820.47</b>

<b>Statutory Oil Revenue Allocations by RJS</b>	<b>Amount</b>
PASEP (Program for the Formation of Assets of Public Servants)	(R\$ 21,576,278.20)
FECAM (State Fund for Environmental Conservation and Urban Development) <sup>1</sup>	R\$ 0.00
Municipalities within RJS	R\$ 0.00
Brazilian Federal Government (Assignment Agreement of October 29, 1999)	R\$ 0.00
Conta B (State Decree N° 43,783 of September 12, 2012)	R\$ 0.00
<b>Total RJS Oil Revenue Allocations</b>	<b>(R\$ 21,576,278.20)</b>

<b>Assigned Oil Revenues and Assigned Oil Revenue Rights</b>	<b>Amount</b>
RJS Oil Revenues and RJS Oil Revenue Rights	R\$ 2,157,627,820.47
RJS Oil Revenue Allocations	(R\$ 21,576,278.20)
<b>Net amount transferred to Collections Account</b>	<b>R\$ 2,136,051,542.27</b>

1) According to the Amendment to the State of Rio de Janeiro Constitution N° 70 of December 12, 2017 and the State Law N° 178 of December 20, 2017 (the “FECAM Subordination Legislation”), amounts related to FECAM Allocation are not deducted from Royalties and Special Participations, but instead are allocated according to priority fifteenth of the Revenue Account Waterfall (Section 4.3.(o) of the Indenture).



## Section (B) – Detailed Excess Amounts in the Transaction Accounts

The tables below show the detailed calculations for the excess amounts in Transaction Accounts, as of November 08, 2019:

### (i) For each of the Series Account

According to Section 4.3 of the Indenture: “To the extent that any Transfer Amount for such Transfer Date is a negative number, the related transfer described in the Revenue Account Waterfall will instead require a transfer of such Transfer Amount from the related Transaction Account to the Revenue Account.”

	Series 2014-1 Notes		
	(1)	(2)	(3)
A. Balance	US\$ 26,676,726.78	US\$ 5,019,548.13	US\$ 221,159,293.68
B. Required Amount	US\$ 26,676,726.78	US\$ 38,711,012.92	US\$ 222,772,017.00
C. Available Funds (A – B)	<b>US\$ 0.00</b>	<b>US\$ 0.00</b>	<b>US\$ 0.00</b>

	Series 2014-2 Notes		
	(1)	(2)	(3)
A. Balance	R\$ 14,304,547.86	R\$ 4,540,120.98	R\$ 146,622,484.42
B. Required Amount	R\$ 14,304,547.86	R\$ 32,745,703.47	R\$ 132,986,463.39
C. Available Funds (A – B)	<b>R\$ 0.00</b>	<b>R\$ 0.00</b>	<b>R\$ 13,636,021.03</b>

	Series 2014-3 Notes		
	(1)	(2)	(3)
A. Balance	US\$ 18,553,266.04	US\$ 2,243,123.37	US\$ 121,191,953.38
B. Required Amount	US\$ 18,553,266.04	US\$ 17,299,082.56	US\$ 117,869,263.95
C. Available Funds (A – B)	<b>US\$ 0.00</b>	<b>US\$ 0.00</b>	<b>US\$ 3,322,689.43</b>

	Series 2018-1 Notes		
	(1)	(2)	(3)
A. Balance	US\$ 12,300,000.00	US\$ 0.00	US\$ 43,411,764.72
B. Required Amount	US\$ 12,300,000.00	US\$ 0.00	US\$ 38,818,851.67
C. Available Funds (A – B)	<b>US\$ 0.00</b>	<b>US\$ 0.00</b>	<b>US\$ 4,592,913.05</b>

- (1) Series Senior Interest Subaccount
- (2) Series Senior Scheduled Principal Subaccount
- (3) Debt Service Reserve Account

### Total Excess Amounts

$$US\$ 3,283,810.00 + US\$ 3,322,689.43 + US\$ 4,592,913.04 = US\$ 11,199,412.48 \text{ (R\$ 46,505,560.28)}$$



## Section (C) – Detailed Collections Account Waterfall

Collections Account Waterfall		Amount
Priority	Description	
First	Taxation Expenses Transfer Amount	(R\$ 17,657,906.02)
Second	(i) Servicer Fee Transfer Amount	R\$ 0.00
	(ii) Bond Administrator Fees Transfer Amount	R\$ 0.00
	(iii) Brazilian Collateral Agent Fees Transfer Amount	R\$ 0.00
	(iv) Excess Companhia Securitizadora Expenses Transfer Amount	R\$ 0.00
Third	(i) to the Revenue Account	(R\$ 289,056,261.61)
	(ii) (A) to the Series 2014-2 Special Series Account	(R\$ 28,205,582.49)
	(ii) (B) to the Series 2014-2 Special Debt Service Reserve Account	R\$ 0.00
	(ii) (C) to the Special Interest Liquidity Reserve Account	(R\$ 7,328,308.20)
	(ii) (D) to the Special Interest Trigger Event Reserve Account	R\$ 0.00
	(iii) to the holder of the Sponsor Note and/or RJS	(R\$ 1,840,309,044.23)
Fourth	(i) (A), (B), (C) and (D)	R\$ 0.00
	(ii) to the holder of the Sponsor Note and to RJS	R\$ 0.00
<b>Total Debt</b>		<b>(R\$ 2,182,557,102.55)</b>



## Section (D) – Detailed Revenue Account Waterfall

Revenue Account Waterfall		Amount
Priority	Description	
First	Issuer Expenses Transfer Amount	US\$ 0.00
Second	To the Series 2014-1 Senior Interest Subaccount	US\$ 0.00
	To the Series 2014-2 Senior Interest Subaccount	US\$ 0.00
	To the Series 2014-3 Senior Interest Subaccount	US\$ 0.00
	To the Series 2018-1 Senior Interest Subaccount	US\$ 0.00
Third	To the Series 2014-1 Senior Scheduled Principal Subaccount	(US\$ 33,691,464.79)
	To the Series 2014-2 Senior Scheduled Principal Subaccount	(US\$ 6,792,434.07)
	To the Series 2014-3 Senior Scheduled Principal Subaccount	(US\$ 15,055,959.19)
	To the Series 2018-1 Senior Scheduled Principal Subaccount	US\$ 0.00
Fourth	To the Series 2014-1 Debt Service Reserve Account	(US\$ 1,612,723.32)
	To the Series 2014-2 Debt Service Reserve Account	US\$ 0.00
	To the Series 2014-3 Debt Service Reserve Account	US\$ 0.00
	To the Series 2018-1 Debt Service Reserve Account	US\$ 0.00
Fifth	(i) To the Liquidity Reserve Account	(US\$ 19,250,030.09)
	(ii) To the Special Interest Liquidity Reserve Account	(US\$ 1,764,794.27)
Sixth	To the Series 2014-1 Senior Accelerated Principal Subaccount	US\$ 0.00
	To the Series 2014-2 Senior Accelerated Principal Subaccount	US\$ 0.00
	To the Series 2014-3 Senior Accelerated Principal Subaccount	US\$ 0.00
	To the Series 2018-1 Senior Accelerated Principal Subaccount	US\$ 0.00
Seventh	To the Series 2014-1 Senior Excess Interest Subaccount	US\$ 0.00
	To the Series 2014-2 Senior Excess Interest Subaccount	US\$ 0.00
	To the Series 2014-3 Senior Excess Interest Subaccount	US\$ 0.00
	To the Series 2018-1 Senior Excess Interest Subaccount	US\$ 0.00
Eighth	To the Series 2014-1 Senior Excess Scheduled Principal Subaccount	US\$ 0.00
	To the Series 2014-2 Senior Excess Scheduled Principal Subaccount	US\$ 0.00
	To the Series 2014-3 Senior Excess Scheduled Principal Subaccount	US\$ 0.00
	To the Series 2018-1 Senior Excess Scheduled Principal Subaccount	US\$ 0.00
Ninth	To the Series 2014-1 Senior Excess Accelerated Principal Subaccount	US\$ 0.00
	To the Series 2014-2 Senior Excess Accelerated Principal Subaccount	US\$ 0.00
	To the Series 2014-3 Senior Excess Accelerated Principal Subaccount	US\$ 0.00
	To the Series 2018-1 Senior Excess Accelerated Principal Subaccount	US\$ 0.00
Tenth	(i) to the Trigger Event Reserve Account	US\$ 0.00
	(ii) to the Special Interest Trigger Event Reserve Account	US\$ 0.00
Eleventh	Not applicable	US\$ 0.00
Twelfth	Not applicable	US\$ 0.00
Thirteenth	Not applicable	US\$ 0.00
Fourteenth	To the Reserve LC Expenses Subaccount	US\$ 0.00
Fifteenth	To the holder of the Sponsor Note and to RJS	(US\$ 443,180,985.97)
<b>Total Debt</b>		<b>(US\$ 521,348,391.70)</b>



## Section (E) – Transfer Amounts Details and Supporting Calculations

### (i) Series 2014-1 Senior Scheduled Principal Transfer Amount

$$\text{Series 2014 – 1 Senior Scheduled Principal Transfer Amount} = (a) - (b)$$

$$\text{Series 2014 – 1 Senior Scheduled Principal Required Amount} = (c) \times \sum (d)$$

$$\text{Pending Scheduled Principal Amount for the Series 2014 – 1 Notes} = (e) + (f) + (g) + (h)$$

$$\text{Scheduled Principal Amount for the Series 2014 – 1 Notes} = [(i) \times (j)] - (k)$$

- (a) Series 2014-1 Senior Scheduled Principal Required Amount
- (b) Series 2014-1 Senior Scheduled Principal Subaccount Balance = US\$ 5,019,548.13
- (c) Series 2014-1 Senior Fraction = 1
- (d) Pending Scheduled Principal Amount for the Series 2014-1 Notes
- (e) Scheduled Principal Amount for the Series 2014-1 Notes
- (f) Any unpaid Scheduled Principal Amount for the Series 2014-1 Notes
- (g) Class Sponsor Refund Amount Principal Component for the Series 2014-1 Notes
- (h) Class RJS Damages Amount Principal Component for the Series 2014-1 Notes
- (i) Class Initial Principal Balance for the Series 2014-1 Notes = US\$ 2,000,000,000.00
- (j) Decimal equivalent of the fractional percentage for the Series 2014-1 Notes = 0.025
- (k) Any prepayment of Principal made as a result of an Early Amortization Period, according to the Section 8.3.(b) of the Indenture

#### Supporting Calculations:

##### 1) Prepayment of Principal as result of an Early Amortization Period

$$\text{Scheduled Principal Reduction} =$$

$$\left\{ \left[ \frac{(US\$ 2,000,000,000.00 \times 0.025)}{US\$ 1,960,000,000.00} \right] \times US\$ 103,795,555.08 \right\} +$$
$$\left\{ \left[ \frac{(US\$ 2,000,000,000.00 \times 0.025)}{US\$ 1,890,000,000.00} \right] \times US\$ 185,884,163.13 \right\} +$$
$$\left\{ \left[ \frac{(US\$ 2,000,000,000.00 \times 0.025)}{US\$ 1,860,000,000.00} \right] \times US\$ 129,057,062.90 \right\} +$$
$$\left\{ \left[ \frac{(US\$ 2,000,000,000.00 \times 0.025)}{US\$ 1,830,000,000.00} \right] \times US\$ 9,307,195.26 \right\}$$

$$\text{Scheduled Principal Reduction} =$$

$$(0.0255102041 \times US\$ 103,795,555.08) + (0.0264550265 \times US\$ 185,884,163.13)$$
$$+ (0.0268817204 \times US\$ 129,059,062.90) + (0.0273224044 \times US\$ 9,307,195.26)$$
$$= \text{US\$ 11,288,987.08}$$

##### 2) Scheduled Principal Amount for the Series 2014-1 Notes

$$\text{Scheduled Principal Amount} = [US\$ 2,000,000,000.00 \times 0.025] - US\$ 11,288,987.08$$

$$\text{Scheduled Principal Amount} = US\$ 50,000,000.00 - US\$ 11,288,987.08 = \text{US\$ 38,711,012.92}$$

##### 3) Pending Scheduled Principal Amount for the Series 2014-1 Notes

$$\text{Pending Scheduled Principal Amount} = US\$ 38,711,012.92 + US\$ 0.00 + US\$ 0.00 + US\$ 0.00$$

$$\text{Pending Scheduled Principal Amount} = \text{US\$ 38,711,012.92}$$





**Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)**

**(i) Series 2014-1 Senior Scheduled Principal Transfer Amount (cont.)**

4) Series 2014-1 Senior Scheduled Principal Required Amount

*Senior Scheduled Principal Required Amount = 1 x US\$ 38,711,012.92*

*Senior Scheduled Principal Required Amount = **US\$ 38,711,012.92***

5) Series 2014-1 Senior Scheduled Principal Transfer Amount

*Senior Scheduled Principal Transfer Amount = US\$ 38,711,012.92 – US\$ 5,019,548.13*

*Senior Scheduled Principal Transfer Amount = **US\$ 33,691,464.79***



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (ii) Series 2014-2 Senior Scheduled Principal Transfer Amount

$$\text{Series 2014 – 2 Senior Scheduled Principal Transfer Amount} = (a) - (b)$$

$$\text{Series 2014 – 2 Senior Scheduled Principal Required Amount} = (c) \times \sum (d)$$

$$\text{Pending Scheduled Principal Amount for the Series 2014 – 2 Notes} = (e) + (f) + (g) + (h)$$

$$\text{Scheduled Principal Amount for the Series 2014 – 2 Notes} = [(i) \times (j)] - (k)$$

- (a) Series 2014-2 Senior Scheduled Principal Required Amount
- (b) Series 2014-2 Senior Scheduled Principal Subaccount Balance = R\$ 4,540,120.98
- (c) Series 2014-2 Senior Fraction = 1
- (d) Pending Scheduled Principal Amount for the Series 2014-2 Notes
- (e) Scheduled Principal Amount for the Series 2014-2 Notes
- (f) Any unpaid Scheduled Principal Amount for the Series 2014-2 Notes
- (g) Class Sponsor Refund Amount Principal Component for the Series 2014-2 Notes
- (h) Class RJS Damages Amount Principal Component for the Series 2014-2 Notes
- (i) Class Initial Principal Balance for the Series 2014-2 Notes = R\$ 2,400,000,000.00
- (j) Decimal equivalent of the fractional percentage for the Series 2014-2 Notes = 0.03571
- (k) Any prepayment of Principal made as a result of an Early Amortization Period, according to the Section 8.3.(b) of the Indenture

#### Supporting Calculations:

##### 1) Prepayment of Principal as result of an Early Amortization Period

$$\text{Scheduled Principal Reduction} =$$

$$\left\{ \left[ \frac{(R\$ 2,400,000,000.00 - R\$ 960,000,000.00) \times 0.03571}{R\$ 1,182,888,000.00} \right] \times R\$ 146,266,499.10 \right\} +$$

$$\left\{ \left[ \frac{(R\$ 2,400,000,000.00 - R\$ 960,000,000.00) \times 0.03571}{R\$ 1,028,620,800.00} \right] \times R\$ 135,754,367.55 \right\} +$$

$$\left\{ \left[ \frac{(R\$ 2,400,000,000.00 - R\$ 960,000,000.00) \times 0.03571}{R\$ 977,198,400.00} \right] \times R\$ 95,729,872.61 \right\} +$$

$$\left\{ \left[ \frac{(R\$ 2,400,000,000.00 - R\$ 960,000,000.00) \times 0.03571}{R\$ 925,776,000.00} \right] \times R\$ 8,895,659.18 \right\}$$

$$\text{Scheduled Principal Reduction} =$$

$$(0.0434719094 \times R\$ 146,266,499.10) + (0.0499916004 \times R\$ 135,754,367.55) + (0.0526222720 \times R\$ 95,729,872.61) + (0.0555451859 \times R\$ 8,895,659.18) = \mathbf{R\$ 18,676,696.53}$$

##### 2) Scheduled Principal Amount for the Series 2014-2 Notes

$$\text{Scheduled Principal Amount} = [(R\$ 2,400,000,000.00 - R\$ 960,000,000.00) \times 0.03571] - R\$ 18,676,696.53$$

$$\text{Scheduled Principal Amount} = R\$ 51,422,400.00 - R\$ 18,676,696.53 = \mathbf{R\$ 32,745,703.47}$$

##### 3) Pending Scheduled Principal Amount for the Series 2014-2 Notes

$$\text{Pending Scheduled Principal Amount} = R\$ 32,745,703.47 + R\$ 0.00 + R\$ 0.00 + R\$ 0.00$$

$$\text{Pending Scheduled Principal Amount} = \mathbf{R\$ 32,745,703.47}$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (ii) Series 2014-2 Senior Scheduled Principal Transfer Amount (cont.)

#### 4) Series 2014-2 Senior Scheduled Principal Required Amount

*Senior Scheduled Principal Required Amount = 1 x R\$ 32,745,703.47*

*Senior Scheduled Principal Required Amount = **R\$ 32,745,703.47***

#### 5) Series 2014-2 Senior Scheduled Principal Transfer Amount

*Senior Scheduled Principal Transfer Amount = R\$ 32,745,703.47 – R\$ 4,540,120.98*

*Senior Scheduled Principal Transfer Amount = **R\$ 28,205,582.49 (US\$ 6,792,434.07)***



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (iii) Series 2014-3 Senior Scheduled Principal Transfer Amount

$$\text{Series 2014 – 3 Senior Scheduled Principal Transfer Amount} = (a) - (b)$$

$$\text{Series 2014 – 3 Senior Scheduled Principal Required Amount} = (c) \times \sum (d)$$

$$\text{Pending Scheduled Principal Amount for the Series 2014 – 3 Notes} = (e) + (f) + (g) + (h)$$

$$\text{Scheduled Principal Amount for the Series 2014 – 3 Notes} = [(i) \times (j)] - (k)$$

- (a) Series 2014-3 Senior Scheduled Principal Required Amount
- (b) Series 2014-3 Senior Scheduled Principal Subaccount Balance = US\$ 2,243,123.37
- (c) Series 2014-3 Senior Fraction = 1
- (d) Pending Scheduled Principal Amount for the Series 2014-3 Notes
- (e) Scheduled Principal Amount for the Series 2014-3 Notes
- (f) Any unpaid Scheduled Principal Amount for the Series 2014-3 Notes
- (g) Class Sponsor Refund Amount Principal Component for the Series 2014-3 Notes
- (h) Class RJS Damages Amount Principal Component for the Series 2014-3 Notes
- (i) Class Initial Principal Balance for the Series 2014-3 Notes = US\$ 1,100,000,000.00
- (j) Decimal equivalent of the fractional percentage for the Series 2014-3 Notes = 0.020
- (k) Any prepayment of Principal made as a result of an Early Amortization Period, according to the Section 8.3.(b) of the Indenture

#### Supporting Calculations:

##### 1) Prepayment of Principal as result of an Early Amortization Period

$$\text{Scheduled Principal Reduction} =$$

$$\left\{ \left[ \frac{(US\$ 1,100,000,000.00 \times 0.010)}{US\$ 1,100,000,000.00} \right] \times US\$ 163,811,783.37 \right\} +$$
$$\left\{ \left[ \frac{(US\$ 1,100,000,000.00 \times 0.010)}{US\$ 1,094,500,000.00} \right] \times US\$ 65,835,487.61 \right\} +$$
$$\left\{ \left[ \frac{(US\$ 1,100,000,000.00 \times 0.010)}{US\$ 1,089,000,000.00} \right] \times US\$ 5,017,091.90 \right\}$$

$$\text{Scheduled Principal Reduction} =$$

$$(0.020 \times US\$ 163,811,783.37) + (0.0201005025 \times US\$ 65,835,487.61) + (0.0202020202 \times US\$ 5,017,091.90)$$
$$= \mathbf{US\$ 4,700,917.44}$$

##### 2) Scheduled Principal Amount for the Series 2014-3 Notes

$$\text{Scheduled Principal Amount} = [US\$ 1,100,000,000.00 \times 0.020] - US\$ 4,700,917.44$$

$$\text{Scheduled Principal Amount} = US\$ 22,000,000.00 - US\$ 4,700,917.44 = \mathbf{US\$ 17,299,082.56}$$

##### 3) Pending Scheduled Principal Amount for the Series 2014-3 Notes

$$\text{Pending Scheduled Principal Amount} = US\$ 17,299,082.56 + US\$ 0.00 + US\$ 0.00 + US\$ 0.00$$

$$\text{Pending Scheduled Principal Amount} = \mathbf{US\$ 17,299,082.56}$$



**Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)**

**(iii) Series 2014-3 Senior Scheduled Principal Transfer Amount (cont.)**

4) Series 2014-3 Senior Scheduled Principal Required Amount

*Senior Scheduled Principal Required Amount = 1 x US\$ 17,299,082.56*

*Senior Scheduled Principal Required Amount = **US\$ 17,299,082.56***

5) Series 2014-3 Senior Scheduled Principal Transfer Amount

*Senior Scheduled Principal Transfer Amount = US\$ 17,299,082.56 – US\$ 2,243,123.37*

*Senior Scheduled Principal Transfer Amount = **US\$ 15,055,959.19***



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (iv) Series 2014-1 Debt Service Reserve Account Transfer Amount

$$\text{Series 2014 – 1 Debt Service Reserve Account Transfer Amount} = (b) - (c)$$

$$\text{Series 2014 – 1 Debt Service Reserve Account Required Amount} = (d) + (e)$$

$$\text{Series 2014 – 1 Baseline Debt Service Reserve Account Required Amount} = (f) + (g)$$

$$\begin{aligned} \text{Series 2014 – 1 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times (d)] - [(h) \times (i)] \end{aligned}$$

$$\text{Series 2014 – 1 Liquidity Reserve Account Participation Fraction} = \frac{(j)}{(k)}$$

- (a) Series 2014-1 Debt Service Reserve Account Transfer Amount
- (b) Series 2014-1 Debt Service Reserve Account Required Amount
- (c) Series 2014-1 Debt Service Reserve Account Balance = US\$ 221,159,293.68
- (d) Series 2014-1 Baseline Debt Service Reserve Account Required Amount
- (e) Series 2014-1 Additional Debt Service Reserve Account Required Amount
- (f) Class Interest Amount for the Series 2014-1 Notes for the next two Scheduled Payment Dates
- (g) Scheduled Principal Amounts for the Series 2014-1 Notes for the next two Scheduled Payment Dates
- (h) Series 2014-1 Liquidity Reserve Account Participating Fraction
- (i) Liquidity Reserve Account Balance = US\$ 19,250,030.09
- (j) Series 2014-1 Class Principal Balance = US\$ 1,153,588,184.95
- (k) Sum of Class Principal Balance of all Liquidity Reserve Participating Securities

#### Supporting Calculations:

##### 1) Series 2014-1 Baseline Debt Service Reserve Account Required Amount

Series 2014-1 Debt Service	Amount
January 06, 2020 Class Interest Amount	US\$ 26,676,726.78
January 06, 2020 Scheduled Principal Amount	US\$ 38,711,012.92
April 06, 2020 Class Interest Amount	US\$ 25,781,534.60
April 06, 2020 Scheduled Principal Amount	US\$ 46,453,215.50
<b>Total</b>	<b>US\$ 137,622,489.80</b>

The Series 2014-1 Baseline Debt Service Reserve Account needs to be funded considering the Income Tax of 15% that would be retained in Brazil in the case of using the amount deposited into this account to pay interest and/or principal, calculated as per below:

##### a) IRRF over Interest

$$\text{IRRF} = \text{Interest Baseline Required Amount} \times \left[ \frac{0.15}{(1 - 0.15)} \right]$$

$$\text{IRRF} = \text{US\$ } 52,458,261.38 \times \left[ \frac{0.15}{(1 - 0.15)} \right] = \text{US\$ } 9,257,340.24$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (iv) Series 2014-1 Debt Service Reserve Account Transfer Amount (cont.)

#### 1) Series 2014-1 Baseline Debt Service Reserve Account Required Amount (cont.)

##### b) IRRF over Scheduled Principal

##### Portion of Principal Payments that does not represent capital gain

Principal Amortization: US\$ 85,164,228.42

FX Rate (as of 11/08/2019): R\$ 4.1525

Acquisition Cost (as of 06/20/2014): R\$ 4,148,415,853.35

Initial Principal Amount: US\$ 2,000,000,000.00

$$\text{Portion of Principal Payments} = \frac{\left[ \text{Acquisition Cost} \times \left( \frac{\text{Principal Payment}}{\text{Initial Principal Amount}} \right) \right]}{\text{FX Rate}}$$

$$\text{Portion of Principal Payments} = \frac{\left[ \text{R\$ } 4,148,415,853.35 \times \left( \frac{\text{US\$ } 85,164,228.42}{\text{US\$ } 2,000,000,000.00} \right) \right]}{\text{R\$ } 4.1525} = \text{US\$ } 42,540,233.03$$

##### Amount subject to Tax

*Amount subject to Tax = Scheduled Baseline Required Amount – Portion of Principal Payments*

$$\text{Amount subject to Tax} = \text{US\$ } 85,164,228.42 - \text{US\$ } 42,540,233.03 = \text{US\$ } 42,623,995.39$$

##### IRRF

$$\text{IRRF} = (c) \times \left[ \frac{0.15}{(1 - 0.15)} \right]$$

$$\text{IRRF} = \text{US\$ } 42,623,995.39 \times \left[ \frac{0.15}{(1 - 0.15)} \right] = \text{US\$ } 7,521,881.54$$

#### **Total Baseline Required Amount**

$$\text{US\$ } 137,622,489.80 + \text{US\$ } 9,257,340.24 + \text{US\$ } 7,521,881.54 = \text{US\$ } 154,401,711.58$$

#### 2) Series 2014-1 Liquidity Reserve Account Participation Fraction

Liquidity Reserve Account Participation Securities	Class Principal Balance
Series 2014-1 Notes	US\$ 1,153,588,184.95
Series 2014-3 Notes	US\$ 761,159,632.47
Series 2018-1 Notes	US\$ 600,000,000.00
<b>Total</b>	<b>US\$ 2,514,747,817.42</b>

$$\text{Series 2014 – 1 Liquidity Reserve Account Participation Fraction} = \frac{\text{US\$ } 1,153,588,184.95}{\text{US\$ } 2,514,747,817.42} = 0.458729172$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (iv) Series 2014-1 Debt Service Reserve Account Transfer Amount (cont.)

#### 3) Series 2014-1 Additional Debt Service Reserve Account Required Amount

$$\begin{aligned} \text{Series 2014 – 1 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times \text{US\$ } 154,401,711.58] - [0.458729172 \times \text{US\$ } 19,250,030.09] \end{aligned}$$

$$\begin{aligned} \text{Series 2014 – 1 Additional Debt Service Reserve Account Required Amount} \\ = \text{US\$ } 77,200,855.79 - \text{US\$ } 8,830,550.37 \end{aligned}$$

$$\text{Series 2014 – 1 Additional Debt Service Reserve Account Required Amount} = \text{US\$ } \mathbf{68,370,305.42}$$

#### 4) Series 2014-1 Debt Service Reserve Account Required Amount

$$\text{Series 2014 – 1 Debt Service Reserve Account Required Amount} = \text{US\$ } 154,401,711.58 + \text{US\$ } 68,370,305.42$$

$$\text{Series 2014 – 1 Debt Service Reserve Account Required Amount} = \text{US\$ } \mathbf{222,772,017.00}$$

#### 5) Series 2014-1 Debt Service Reserve Account Transfer Amount

$$\text{Series 2014 – 1 Debt Service Reserve Account Transfer Amount} = \text{US\$ } 222,772,017.00 - \text{US\$ } 221,159,293.68$$

$$\text{Series 2014 – 1 Debt Service Reserve Account Transfer Amount} = \text{US\$ } \mathbf{1,612,723.32}$$





## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (v) Series 2014-2 Debt Service Reserve Account Transfer Amount

$$\text{Series 2014 – 2 Debt Service Reserve Account Transfer Amount} = (b) - (c)$$

$$\text{Series 2014 – 2 Debt Service Reserve Account Required Amount} = (d) + (e)$$

$$\text{Series 2014 – 2 Baseline Debt Service Reserve Account Required Amount} = (f) + (g)$$

$$\begin{aligned} \text{Series 2014 – 2 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times (d)] - [(h) \times (i)] \end{aligned}$$

$$\text{Series 2014 – 2 Special Interest Liquidity Reserve Account Participation Fraction} = \frac{(j)}{(k)}$$

- (a) Series 2014-2 Debt Service Reserve Account Transfer Amount
- (b) Series 2014-2 Debt Service Reserve Account Required Amount
- (c) Series 2014-2 Debt Service Reserve Account Balance = R\$ 146,622,484.42
- (d) Series 2014-2 Baseline Debt Service Reserve Account Required Amount
- (e) Series 2014-2 Additional Debt Service Reserve Account Required Amount
- (f) Class Interest Amount for the Series 2014-2 Notes for the next two Scheduled Payment Dates
- (g) Scheduled Principal Amounts for the Series 2014-2 Notes for the next two Scheduled Payment Dates
- (h) Series 2014-2 Special Interest Liquidity Reserve Account Participating Fraction
- (i) Special Interest Liquidity Reserve Account Balance = R\$ 7,328,308.20
- (j) Series 2014-2 Class Principal Balance = R\$ 327,567,072.72
- (k) Sum of Class Principal Balance of all Special Interest Liquidity Reserve Participating Securities

#### Supporting Calculations:

##### 1) Series 2014-2 Baseline Debt Service Reserve Account Required Amount

Series 2014-2 Debt Service	Amount
January 06, 2020 Class Interest Amount	R\$ 14,304,547.86
January 06, 2020 Scheduled Principal Amount	R\$ 32,745,703.47
April 06, 2020 Class Interest Amount	R\$ 13,747,226.26
April 06, 2020 Scheduled Principal Amount	R\$ 32,745,703.47
<b>Total</b>	<b>R\$ 93,543,181.06</b>

##### 2) Series 2014-2 Special Interest Liquidity Reserve Account Participation Fraction

Special Interest Liquidity Reserve Account Participation Securities	Class Principal Balance
Series 2014-2 Notes	R\$ 327,567,072.72
<b>Total</b>	<b>R\$ 327,567,072.72</b>

$$\text{Series 2014 – 2 Special Interest Liquidity Reserve Account Participation Fraction} = \frac{R\$ 327,567,072.72}{R\$ 327,567,072.72} = 1.00$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (v) Series 2014-2 Debt Service Reserve Account Transfer Amount (cont.)

#### 3) Series 2014-2 Additional Debt Service Reserve Account Required Amount

$$\begin{aligned} \text{Series 2014 – 2 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times \text{R\$ } 93,543,181.06] - [1.00 \times \text{R\$ } 7,328,308.20] \end{aligned}$$

$$\text{Series 2014 – 2 Additional Debt Service Reserve Account Required Amount} = \text{R\$ } 46,771,590.53 - \text{R\$ } 7,328,308.20$$

$$\text{Series 2014 – 2 Additional Debt Service Reserve Account Required Amount} = \mathbf{\text{R\$ } 39,443,282.33}$$

#### 4) Series 2014-2 Debt Service Reserve Account Required Amount

$$\text{Series 2014 – 2 Debt Service Reserve Account Required Amount} = \text{R\$ } 93,543,181.06 + \text{R\$ } 39,443,282.33$$

$$\text{Series 2014 – 2 Debt Service Reserve Account Required Amount} = \mathbf{\text{R\$ } 132,986,463.39}$$

#### 5) Series 2014-2 Debt Service Reserve Account Transfer Amount

$$\text{Series 2014 – 2 Debt Service Reserve Account Transfer Amount} = \text{R\$ } 132,986,463.39 - \text{R\$ } 146,622,484.42$$

$$\text{Series 2014 – 2 Debt Service Reserve Account Transfer Amount} = \mathbf{(\text{R\$ } 13,636,021.03)}$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (vi) Series 2014-3 Debt Service Reserve Account Transfer Amount

$$\text{Series 2014 – 3 Debt Service Reserve Account Transfer Amount} = (b) - (c)$$

$$\text{Series 2014 – 3 Debt Service Reserve Account Required Amount} = (d) + (e)$$

$$\text{Series 2014 – 3 Baseline Debt Service Reserve Account Required Amount} = (f) + (g)$$

$$\begin{aligned} \text{Series 2014 – 3 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times (d)] - [(h) \times (i)] \end{aligned}$$

$$\text{Series 2014 – 3 Liquidity Reserve Account Participation Fraction} = \frac{(j)}{(k)}$$

- (a) Series 2014-3 Debt Service Reserve Account Transfer Amount
- (b) Series 2014-3 Debt Service Reserve Account Required Amount
- (c) Series 2014-3 Debt Service Reserve Account Balance = US\$ 121,191,953.38
- (d) Series 2014-3 Baseline Debt Service Reserve Account Required Amount
- (e) Series 2014-3 Additional Debt Service Reserve Account Required Amount
- (f) Class Interest Amount for the Series 2014-3 Notes for the next two Scheduled Payment Dates
- (g) Scheduled Principal Amounts for the Series 2014-3 Notes for the next two Scheduled Payment Dates
- (h) Series 2014-3 Liquidity Reserve Account Participating Fraction
- (i) Liquidity Reserve Account Balance = US\$ 19,250,030.09
- (j) Series 2014-3 Class Principal Balance = US\$ 1,153,588,184.95
- (k) Sum of Class Principal Balance of all Liquidity Reserve Participating Securities

#### Supporting Calculations:

##### 1) Series 2014-3 Baseline Debt Service Reserve Account Required Amount

Series 2014-3 Debt Service	Amount
January 06, 2020 Class Interest Amount	US\$ 18,553,266.04
January 06, 2020 Scheduled Principal Amount	US\$ 17,299,082.56
April 06, 2020 Class Interest Amount	US\$ 18,131,600.90
April 06, 2020 Scheduled Principal Amount	US\$ 19,461,467.88
<b>Total</b>	<b>US\$ 73,445,417.38</b>

The Series 2014-3 Baseline Debt Service Reserve Account needs to be funded considering the Income Tax of 15% that would be retained in Brazil in the case of using the amount deposited into this account to pay interest and/or principal, calculated as per below:

##### a) IRRF over Interest

$$IRRF = \text{Interest Baseline Required Amount} \times \left[ \frac{0.15}{(1 - 0.15)} \right]$$

$$IRRF = \text{US\$ } 36,684,866.94 \times \left[ \frac{0.15}{(1 - 0.15)} \right] = \text{US\$ } 6,473,800.05$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (vi) Series 2014-3 Debt Service Reserve Account Transfer Amount (cont.)

#### 1) Series 2014-3 Baseline Debt Service Reserve Account Required Amount (cont.)

##### b) IRRF over Scheduled Principal

##### Portion of Principal Payments that does not represent capital gain

Principal Amortization: US\$ 36,760,550.44

FX Rate (as of 11/08/2019): R\$ 4.1525

Acquisition Cost (as of 11/21/2014): R\$ 2,775,991,813.41

Initial Principal Amount: US\$ 1,100,000,000.00

$$\text{Portion of Principal Payments} = \frac{\left[ \text{Acquisition Cost} \times \left( \frac{\text{Principal Payment}}{\text{Initial Principal Amount}} \right) \right]}{\text{FX Rate}}$$

$$\text{Portion of Principal Payments} = \frac{\left[ \text{R\$ } 2,775,991,813.41 \times \left( \frac{\text{US\$ } 36,760,550.44}{\text{US\$ } 1,100,000,000.00} \right) \right]}{\text{R\$ } 4.1525} = \text{US\$ } 22,340,755.75$$

##### Amount subject to Tax

*Amount subject to Tax = Scheduled Baseline Required Amount – Portion of Principal Payments*

$$\text{Amount subject to Tax} = \text{US\$ } 36,760,550.44 - \text{US\$ } 22,340,755.75 = \text{US\$ } 14,419,794.69$$

##### IRRF

$$\text{IRRF} = (c) \times \left[ \frac{0.15}{(1 - 0.15)} \right]$$

$$\text{IRRF} = \text{US\$ } 14,419,794.69 \times \left[ \frac{0.15}{(1 - 0.15)} \right] = \text{US\$ } 2,544,669.65$$

#### **Total Baseline Required Amount**

$$\text{US\$ } 73,445,417.38 + \text{US\$ } 6,473,800.05 + \text{US\$ } 2,544,669.65 = \text{US\$ } 82,463,887.08$$

#### 2) Series 2014-3 Liquidity Reserve Account Participation Fraction

Liquidity Reserve Account Participation Securities	Class Principal Balance
Series 2014-1 Notes	US\$ 1,153,588,184.95
Series 2014-3 Notes	US\$ 761,159,632.47
Series 2018-1 Notes	US\$ 600,000,000.00
<b>Total</b>	<b>US\$ 2,514,747,817.42</b>

$$\text{Series 2014 – 3 Liquidity Reserve Account Participation Fraction} = \frac{\text{US\$ } 761,159,632.47}{\text{US\$ } 2,514,747,817.42} = 0.302678315$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (vi) Series 2014-3 Debt Service Reserve Account Transfer Amount (cont.)

#### 3) Series 2014-3 Additional Debt Service Reserve Account Required Amount

$$\begin{aligned} \text{Series 2014 – 3 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times \text{US\$ } 82,463,887.08] - [0.302678315 \times \text{US\$ } 19,250,030.09] \end{aligned}$$

$$\begin{aligned} \text{Series 2014 – 3 Additional Debt Service Reserve Account Required Amount} \\ = \text{US\$ } 41,231,943.54 - \text{US\$ } 5,826,566.67 \end{aligned}$$

$$\text{Series 2014 – 3 Additional Debt Service Reserve Account Required Amount} = \text{US\$ } \mathbf{35,405,376.87}$$

#### 4) Series 2014-3 Debt Service Reserve Account Required Amount

$$\text{Series 2014 – 3 Debt Service Reserve Account Required Amount} = \text{US\$ } 82,463,887.08 + \text{US\$ } 35,405,376.87$$

$$\text{Series 2014 – 3 Debt Service Reserve Account Required Amount} = \text{US\$ } \mathbf{117,869,263.95}$$

#### 5) Series 2014-3 Debt Service Reserve Account Transfer Amount

$$\text{Series 2014 – 3 Debt Service Reserve Account Transfer Amount} = \text{US\$ } 117,869,263.95 - \text{US\$ } 121,191,953.38$$

$$\text{Series 2014 – 3 Debt Service Reserve Account Transfer Amount} = (\text{US\$ } \mathbf{3,322,689.43})$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (vii) Series 2018-1 Debt Service Reserve Account Transfer Amount

$$\text{Series 2018 – 1 Debt Service Reserve Account Transfer Amount} = (b) - (c)$$

$$\text{Series 2018 – 1 Debt Service Reserve Account Required Amount} = (d) + (e)$$

$$\text{Series 2018 – 1 Baseline Debt Service Reserve Account Required Amount} = (f) + (g)$$

$$\text{Series 2018 – 1 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times (d)] - [(h) \times (i)]$$

$$\text{Series 2018 – 1 Liquidity Reserve Account Participation Fraction} = \frac{(j)}{(k)}$$

- (a) Series 2018-1 Debt Service Reserve Account Transfer Amount
- (b) Series 2018-1 Debt Service Reserve Account Required Amount
- (c) Series 2018-1 Debt Service Reserve Account Balance = US\$ 43,411,764.71
- (d) Series 2018-1 Baseline Debt Service Reserve Account Required Amount
- (e) Series 2018-1 Additional Debt Service Reserve Account Required Amount
- (f) Class Interest Amount for the Series 2018-1 Notes for the next two Scheduled Payment Dates
- (g) Scheduled Principal Amounts for the Series 2018-1 Notes for the next two Scheduled Payment Dates
- (h) Series 2018-1 Liquidity Reserve Account Participating Fraction
- (i) Liquidity Reserve Account Balance = US\$ 19,250,030.09
- (j) Series 2018-1 Class Principal Balance = US\$ 600,000,000.00
- (k) Sum of Class Principal Balance of all Liquidity Reserve Participating Securities

#### Supporting Calculations:

##### 1) Series 2018-1 Baseline Debt Service Reserve Account Required Amount

Series 2018-1 Debt Service	Amount
January 06, 2020 Class Interest Amount	US\$ 12,300,000.00
January 06, 2020 Scheduled Principal Amount	US\$ 0.00
April 06, 2020 Class Interest Amount	US\$ 12,300,000.00
April 06, 2020 Scheduled Principal Amount	US\$ 0.00
<b>Total</b>	<b>US\$ 24,600,000.00</b>

The Series 2018-1 Baseline Debt Service Reserve Account needs to be funded considering the Income Tax of 15% that would be retained in Brazil in the case of using the amount deposited into this account to pay interest and/or principal, calculated as per below:

##### a) IRRF over Interest

$$IRRF = \text{Interest Baseline Required Amount} \times \left[ \frac{0.15}{(1 - 0.15)} \right]$$

$$IRRF = \text{US\$ } 24,600,000.00 \times \left[ \frac{0.15}{(1 - 0.15)} \right] = \text{US\$ } 4,341,176.46$$

#### **Total Baseline Required Amount**

$$\text{US\$ } 24,600,000.00 + \text{US\$ } 4,341,176.46 = \text{US\$ } 28,941,176.46$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (vii) Series 2018-1 Debt Service Reserve Account Transfer Amount (cont.)

#### 2) Series 2018-1 Liquidity Reserve Account Participation Fraction

Liquidity Reserve Account Participation Securities	Class Principal Balance
Series 2014-1 Notes	US\$ 1,153,588,184.95
Series 2014-3 Notes	US\$ 761,159,632.47
Series 2018-1 Notes	US\$ 600,000,000.00
<b>Total</b>	<b>US\$ 2,514,747,817.42</b>

$$\text{Series 2014 – 3 Liquidity Reserve Account Participation Fraction} = \frac{\text{US\$ 600,000,000.00}}{\text{US\$ 2,514,747,817.42}} = 0.238592512$$

#### 3) Series 2018-1 Additional Debt Service Reserve Account Required Amount

$$\begin{aligned} \text{Series 2018 – 1 Additional Debt Service Reserve Account Required Amount} \\ = [0.5 \times \text{US\$ 28,941,176.46}] - [0.238592512 \times \text{US\$ 19,250,030.09}] \end{aligned}$$

$$\begin{aligned} \text{Series 2018 – 1 Additional Debt Service Reserve Account Required Amount} \\ = \text{US\$ 14,470,588.24} - \text{US\$ 4,592,913.04} \end{aligned}$$

$$\text{Series 2018 – 1 Additional Debt Service Reserve Account Required Amount} = \text{US\$ 9,877,675.20}$$

#### 4) Series 2018-1 Debt Service Reserve Account Required Amount

$$\text{Series 2018 – 1 Debt Service Reserve Account Required Amount} = \text{US\$ 28,941,176.46} + \text{US\$ 9,877,675.20}$$

$$\text{Series 2018 – 1 Debt Service Reserve Account Required Amount} = \text{US\$ 38,818,851.66}$$

#### 5) Series 2018-1 Debt Service Reserve Account Transfer Amount

$$\text{Series 2018 – 1 Debt Service Reserve Account Transfer Amount} = \text{US\$ 38,818,851.66} - \text{US\$ 43,411,764.71}$$

$$\text{Series 2018 – 1 Debt Service Reserve Account Transfer Amount} = (\text{US\$ 4,592,913.05})$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (viii) Liquidity Reserve Account Transfer Amount

$$\text{Liquidity Reserve Account Transfer Amount} = (a) - (b)$$

$$\text{Liquidity Reserve Account Required Amount} = (c) \times 0.666666 \times \{[\sum (d)] + [\sum (e)]\}$$

$$\text{Liquidity Target Factor} = 1 - \left[ \frac{(f)}{(g)} \right]$$

$$\text{Average Low Collections} = \frac{(h)}{3}$$

$$\text{Average High Collections} = \frac{(i) - (h)}{9}$$

- (a) Liquidity Reserve Account Required Amount
- (b) Liquidity Reserve Account Balance = US\$ 0.00
- (c) Liquidity Target Factor
- (d) Class Interest Amount for each Series of Liquidity Reserve Participating Securities
- (e) Scheduled Principal Amount for each Series of Liquidity Reserve Participating Securities
- (f) Average Low Collections
- (g) Average High Collections
- (h) Early Period Collections = sum of Collections received during the period from Dec 23, 2017 until Mar 22, 2018 = R\$ 2,706,739,946.75
- (i) Annual Collections = sum of Collections received during 2018 = R\$ 13,341,330,267.63

#### Supporting Calculations:

##### 1) Average High Collections

$$\text{Average High Collections} = \frac{R\$ 13,341,330,267.63 - R\$ 2,706,739,946.75}{9} = R\$ 1,181,621,146.76$$

##### 2) Average Low Collections

$$\text{Average Low Collections} = \frac{R\$ 2,706,739,946.75}{3} = R\$ 902,246,648.92$$

##### 3) Liquidity Target Factor

$$\text{Liquidity Target Factor} = 1 - \left[ \frac{R\$ 902,246,648.92}{R\$ 1,181,621,146.76} \right] = 0.236433224$$

##### 4) Class Interest Amount

April 06, 2020 Class Interest Amount	Amount
Series 2014-1 Notes	US\$ 25,781,534.60
Series 2014-3 Notes	US\$ 18,131,600.90
Series 2018-1 Notes	US\$ 12,300,000.00
<b>Total</b>	<b>US\$ 56,213,135.50</b>





## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (viii) Liquidity Reserve Account Transfer Amount (cont.)

#### 5) Scheduled Principal Amount

April 06, 2020 Scheduled Principal Amount	Amount
Series 2014-1 Notes	US\$ 46,453,215.50
Series 2014-3 Notes	US\$ 19,461,467.88
Series 2018-1 Notes	US\$ 0.00
<b>Total</b>	<b>US\$ 65,914,683.38</b>

#### 6) Liquidity Reserve Account Required Amount

*Liquidity Reserve Account Required Amount*

$$= 0.236433224 \times 0.666666 \times \{[US\$ 56,213,135.50] + [US\$ 65,914,683.38]\}$$

$$\text{Liquidity Reserve Account Required Amount} = \text{US\$ 19,250,030.09}$$

#### 7) Liquidity Reserve Account Transfer Amount

$$\text{Liquidity Reserve Account Transfer Amount} = \text{US\$ 19,250,030.09} - \text{US\$ 0.00}$$

$$\text{Liquidity Reserve Account Transfer Amount} = \text{US\$ 19,250,030.09}$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (ix) Special Interest Liquidity Reserve Account Transfer Amount

$$\text{Special Interest Liquidity Reserve Account Transfer Amount} = (a) - (b)$$

$$\text{Special Interest Liquidity Reserve Account Required Amount} = (c) \times 0.666666 \times \{[\sum (d)] + [\sum (e)]\}$$

$$\text{Liquidity Target Factor} = 1 - \left[ \frac{(f)}{(g)} \right]$$

$$\text{Average Low Collections} = \frac{(h)}{3}$$

$$\text{Average High Collections} = \frac{(i) - (h)}{9}$$

- (a) Special Interest Liquidity Reserve Account Required Amount
- (b) Special Interest Liquidity Reserve Account Balance = R\$ 0.00
- (c) Liquidity Target Factor
- (d) Class Interest Amount for each Series of Special Interest Liquidity Reserve Participating Securities
- (e) Scheduled Principal Amount for each Series of Special Interest Liquidity Reserve Participating Securities
- (f) Average Low Collections
- (g) Average High Collections
- (h) Early Period Collections = sum of Collections received during the period from Dec 23, 2017 until Mar 22, 2018 = R\$ 2,706,739,946.75
- (i) Annual Collections = sum of Collections received during 2018 = R\$ 13,341,330,267.63

#### Supporting Calculations:

##### 1) Average High Collections

$$\text{Average High Collections} = \frac{R\$ 13,341,330,267.63 - R\$ 2,706,739,946.75}{9} = R\$ 1,181,621,146.76$$

##### 2) Average Low Collections

$$\text{Average Low Collections} = \frac{R\$ 2,706,739,946.75}{3} = R\$ 902,246,648.92$$

##### 3) Liquidity Target Factor

$$\text{Liquidity Target Factor} = 1 - \left[ \frac{R\$ 902,246,648.92}{R\$ 1,181,621,146.76} \right] = 0.236433224$$

##### 4) Class Interest Amount

April 06, 2020 Class Interest Amount	Amount
Series 2014-2 Notes	R\$ 13,747,226.26
<b>Total</b>	<b>R\$ 13,747,226.26</b>



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (ix) Special Interest Liquidity Reserve Account Transfer Amount (cont.)

#### 5) Scheduled Principal Amount

April 06, 2020 Scheduled Principal Amount	Amount
Series 2014-2 Notes	R\$ 32,745,703.47
<b>Total</b>	<b>R\$ 32,745,703.47</b>

#### 6) Special Interest Liquidity Reserve Account Required Amount

*Special Interest Liquidity Reserve Account Required Amount*

$$= 0.236433224 \times 0.666666 \times \{[R\$ 13,747,226.26] + [R\$ 32,745,703.47]\}$$

*Special Interest Liquidity Reserve Account Required Amount = R\$ 7,328,308.20*

#### 7) Special Interest Liquidity Reserve Account Transfer Amount

*Special Interest Liquidity Reserve Account Transfer Amount = R\$ 7,328,308.20 – R\$ 0.00*

*Special Interest Liquidity Reserve Account Transfer Amount = R\$ 7,328,308.20 (US\$ 1,764,794.27)*



## Section (E) - Transfer Amounts Details and Supporting Calculations (cont.)

### (x) Taxation Expenses Transfer Amount

1) All funds transferred from Brazil to the Issuer abroad and/or from the Issuer abroad to Brazil are subject to IOF (*Imposto sobre Operações de Crédito, Câmbio e Seguros ou relativos a Títulos ou Valores Mobiliário*) at the rate of 0.38%;

2) All funds transferred from Brazil to the Issuer abroad are subject to IRRF (*Imposto de Renda Retido na Fonte*) at the rate of 15.00%, for the amounts other than related to a portion of Principal Payments that does not represent capital gain as a consequence of exchange rate movement, to fund the Debt Service Reserve Account, to fund the Liquidity Reserve Account and to fund the Trigger Event Reserve Account;

3) All funds drawn from the Debt Service Reserve Account, from the Liquidity Reserve Account and from the Trigger Event Reserve Account outside Brazil to be used for Interest Payment and for the portion of Principal Payment that represents capital gain as a consequence of exchange rate movement are subject to IRRF (*Imposto de Renda Retido na Fonte*) at the rate of 15.00%.

#### Supporting Calculations:

##### 1) IOF

$$IOF = \text{Amount Wired Offshore} \times 0.38\%$$

$$IOF = \text{US\$ } 61,694,574.91 \times 0.38\% = \text{US\$ } 234,439.07 \text{ (R\$ } 973,508.25)$$

##### 2) IRRF

i. Over the funds transferred to the Issuer outside Brazil

(a) Portion of Principal Payments that does not represent capital gain

#### For the Series 2014-1:

Principal Amortization: US\$ 33,691,464.79

FX Rate (as of 11/08/2019): R\$ 4.1525

Acquisition Cost (as of 06/20/2014): R\$ 4,148,415,853.35

Initial Principal Amount: US\$ 2,000,000,000.00

$$\text{Portion of Principal Payments} = \frac{\left[ \text{Acquisition Cost} \times \left( \frac{\text{Principal Payment}}{\text{Initial Principal Amount}} \right) \right]}{\text{FX Rate}}$$

$$\text{Portion of Principal Payments} = \frac{\left[ \text{R\$ } 4,148,415,853.35 \times \left( \frac{\text{US\$ } 33,691,464.79}{\text{US\$ } 2,000,000,000.00} \right) \right]}{\text{R\$ } 4.1525} = \text{US\$ } 16,829,163.96$$



## Section (E) – Transfer Amounts Details and Supporting Calculations (cont.)

### (x) Taxation Expenses Transfer Amount (cont.)

For the Series 2014-3:

Principal Amortization: US\$ 15,055,959.19

FX Rate (as of 11/08/2019): R\$ 4.1525

Acquisition Cost (as of 06/20/2014): R\$ 2,775,991,813.41

Initial Principal Amount: US\$ 1,100,000,000.00

$$\text{Portion of Principal Payments} = \frac{\left[ \text{Acquisition Cost} \times \left( \frac{\text{Principal Payment}}{\text{Initial Principal Amount}} \right) \right]}{\text{FX Rate}}$$

$$\text{Portion of Principal Payments} = \frac{\left[ \text{R\$ } 2,775,991,813.41 \times \left( \frac{\text{US\$ } 15,055,959.19}{\text{US\$ } 1,100,000,000.00} \right) \right]}{\text{R\$ } 4.1525} = \text{US\$ } 9,150,067.20$$

$$\text{Total Portion of Principal Payments} = \text{US\$ } 16,829,163.96 + \text{US\$ } 9,150,067.20 = \text{US\$ } 25,979,231.16$$

### (b) Deductions

$$\text{Deductions} = \text{Portion of Principal Payments} + \text{Debt Service Reserve Account} \\ + \text{Liquidity Reserve Account} + \text{Trigger Event Reserve Account}$$

$$\text{Deductions} = \text{US\$ } 25,979,231.16 + \text{US\$ } 1,612,723.32 + \text{US\$ } 11,334,427.62 + \text{US\$ } 0.00 \\ = \text{US\$ } 38,926,382.10$$

### (c) Amount subject to Tax

$$\text{Amount subject to Tax} = \text{Amount Wired Offshore} - \text{Deductions}$$

$$\text{Amount subject to Tax} = \text{US\$ } 61,694,574.91 - \text{US\$ } 38,926,382.10 = \text{US\$ } 22,768,192.81$$

### (d) IRRF

$$\text{IRRF} = (c) \times \left[ \frac{0.15}{(1 - 0.15)} \right]$$

$$\text{IRRF} = \text{US\$ } 22,768,192.81 \times 0.176470588 = \text{US\$ } 4,017,916.38 \text{ (R\$ } 16,684,397.77)$$

## Total Taxation Expenses

$$\text{US\$ } 234,439.07 + \text{US\$ } 4,017,916.38 = \text{US\$ } 4,252,355.45 \text{ (R\$ } 17,657,906.02)$$



## Section (F) – Transaction Accounts Balance

Collections Account		Amount
Date	Description	
10/18/19	Balance	R\$ 0.00
11/08/19	Assigned Oil Revenues and Assigned Oil Revenue Rights	R\$ 2,136,051,542.27
11/08/19	From the Series 2014-2 Debt Service Reserve Account	R\$ 13,636,021.03
11/08/19	From the Series 2014-3 Debt Service Reserve Account	R\$ 13,797,467.86
11/08/19	From the Series 2018-1 Debt Service Reserve Account	R\$ 19,072,071.40
11/08/19	Taxation Expenses Transfer Amount	(R\$ 17,657,906.02)
11/08/19	Series 2014-1 Senior Scheduled Principal Transfer Amount	(R\$ 139,903,807.54)
11/08/19	Series 2014-2 Senior Scheduled Principal Transfer Amount	(R\$ 28,205,582.49)
11/08/19	Series 2014-3 Senior Scheduled Principal Transfer Amount	(R\$ 62,519,870.54)
11/08/19	Series 2014-1 Debt Service Reserve Account Transfer Amount	(R\$ 6,696,833.59)
11/08/19	Liquidity Reserve Account Transfer Amount	(R\$ 79,935,749.95)
11/08/19	Special Interest Liquidity Reserve Account Transfer Amount	(R\$ 7,328,308.20)
11/08/19	To the holder of the Sponsor Note and/or RJS	(R\$ 1,840,309,044.23)
<b>Final Balance as of the close of business of November 08, 2019</b>		<b>R\$ 0.00</b>

Series 2014-2 Special Series Account		Amount
Date	Description	
10/18/19	Balance	R\$ 18,550,591.10
11/08/19	Interest (Eligible Investments)	R\$ 294,077.74
11/08/19	Series 2014-2 Senior Scheduled Principal Transfer Amount	R\$ 28,205,582.49
<b>Final Balance as of the close of business of November 08, 2019</b>		<b>R\$ 47,050,251.33</b>

Series 2014-2 Special Debt Service Reserve Account		Amount
Date	Description	
10/18/19	Balance	R\$ 144,895,470.00
11/08/19	Interest (Eligible Investments)	R\$ 1,727,014.42
11/08/19	To the Collections Account	(R\$ 13,636,021.03)
<b>Final Balance as of the close of business of November 08, 2019</b>		<b>R\$ 132,986,463.39</b>

Special Interest Liquidity Reserve Account		Amount
Date	Description	
10/18/19	Balance	R\$ 0.00
11/08/19	Special Interest Liquidity Reserve Account Transfer Amount	R\$ 7,328,308.20
<b>Final Balance as of the close of business of November 08, 2019</b>		<b>R\$ 7,328,308.20</b>



**Section (F) – Transaction Accounts Balance (cont.)**

<b>Special Interest Trigger Event Reserve Account</b>		<b>Amount</b>
<b>Date</b>	<b>Description</b>	
10/18/19	Balance	R\$ 0.00
<b>Final Balance as of the close of business of November 08, 2019</b>		<b>R\$ 0.00</b>



## Section (G) – Other Information

Events	Y / N
Has any Event of Default occurred or continued as of the close of business for the Indenture Trustee on the related Allocation Date?	No
Has any Trigger Event occurred or continued as of the close of business for the Indenture Trustee on the related Allocation Date?	No
Has any Bond Administrator Replacement Event occurred or continued as of the close of business for the Indenture Trustee on the related Allocation Date?	No
Has any Servicer Replacement Event occurred or continued as of the close of business for the Indenture Trustee on the related Allocation Date?	No
Has any Event of Default been declared as of the close of business for the Indenture Trustee on the related Allocation Date?	No
Has any Early Amortization Period been declared as of the close of business for the Indenture Trustee on the related Allocation Date?	No
Has there been the occurrence of conditions, which give rise to any Sponsor Refund Obligations or any RJS Damages as of the close of business for the Indenture Trustee on the related Allocation Date?	No





## Section (H) – Transfer Instructions

Transaction: Funds to the Revenue Account			Amount
Type	Account	Name	
Debt	11348500	Series 2014-3 Debt Service Reserve Account	(US\$ 3,322,689.43)
Debt	12025500	Series 2018-1 Debt Service Reserve Account	(US\$ 4,592,913.05)
Credit	11249600	Revenue Account	US\$ 7,915,602.48

Transaction: Funds to the Senior Scheduled Principal Subaccount			Amount
Type	Account	Name	
Debt	11249600	Revenue Account	(US\$ 48,747,423.98)
Credit	11250200	Series 2014-1 Series Account	US\$ 33,691,464.79
Credit	11348400	Series 2014-3 Series Account	US\$ 15,055,959.19

Transaction: Funds to the Debt Service Reserve Account			Amount
Type	Account	Name	
Debt	11249600	Revenue Account	(US\$ 1,612,723.32)
Credit	11252400	Series 2014-1 Debt Service Reserve Account	US\$ 1,612,723.32

Transaction: Funds to the Liquidity Reserve Account			Amount
Type	Account	Name	
Debt	11249600	Revenue Account	(US\$ 19,250,030.09)
Credit	11249900	Liquidity Reserve Account	US\$ 19,250,030.09