

Section B of Exhibit 5.3.1

Authorization instruments for radiofrequency use in force

Authorization Instrument for RF	Instrument Date	Radiofrequency	Geographic Area	Extension Act	Date of the Act (DD/MM/YYYY)	Maturity of the Grant (DD/MM/YYYY)	Extension Request Date (DD/MM/YYYY)	Extension Request Status
PVCP/SPV No. 001/2001 TA SMP	12/Mar/01	Sub-band "D": 2G - 1,8GHz : 1,710 to 1,725MHz / 1,805 to 1,820MHz	RJ, ES, MG, AM, RR, AP, PA, MA, BA, SE, PI, CE, RN, PB, PE, AL	5627/2015	11/09/2015	12/03/2031	10.07.2013	Granted
026/2002/PVCP/SPV TA SMP (Consolidated in Instrument No. 11/2010)	18/Dec/02	Sub-band "E" - 2G - 1,740 to 1,755MHz / 1,835 to 1,850MHz	PR, SC	652/2018	26/01/2018	22/12/2032	18.02.2014	Granted
027/2002/PVCP/SPV TA SMP (Consolidated in Instrument No. 11/2010)	18/Dec/02	Sub-band "E" - 2G - 1,740 to 1,755MHz / 1,835 to 1,850MHz	RS	652/2018	26/01/2018	22/12/2032	18.02.2014	Granted
028/2002/PVCP/SPV TA SMP (Consolidated in Instrument No. 11/2010)	18/Dec/02	Sub-band "E" - 2G - 1,740 to 1,755MHz / 1,835 to 1,850MHz	AC, GO, MS, MT, RO, TO DF	652/2018	26/01/2018	22/12/2032	18.02.2014	Granted
PVCP/SPV No. 014/2003 TA RF	11/Jul/03	Sub-band "D": 2G - 1.8GHz : Sector 1 of Block 1 - 1,725 to 1,727.5MHz / 1,820 to 1,822.5MHz / Sector 1 of Block 2 - 1,727.5 to 1,730MHz / 1,822.5 to 1,825MHz / Sector 1 of Block 3 - 1,730 to 1,732.5MHz / 1,825 to 1,827.5MHz / Sector 2 of Block 1 - 1,725 to 1,727.5MHz / 1,820 to 1,822.5MHz / Sector 2 of Block 2 - 1,727.5 to 1,730MHz / 1,822.5 to 1,825MHz / Sector 3 of Block 1 - 1,725 to 1,727.5MHz / 1,820 to 1,822.5MHz / Sector 3 of Block 2 - 1,727.5 to 1,730MHz / 1,822.5 to 1,825MHz / Sector 5 of Block 1 - 1,725 to	RJ, BA, CE, MG, PE sector 1 of the State of Rio de Janeiro sector 2 of the State of Minas Gerais, except for the Municipalities that are part of Sector 3 sector 3 of the Municipalities of Araporã, Araújo, Campina Verde, Campo Florido, Campos Altos, Canápolis, Capinópolis, Carmo do Paranaíba, Carneirinhos, Centralina, Comendador Gomes, Conceição das Alagoas, Córrego Danta,	5627/2015	11/09/2015	12/03/2031	10.07.2013	Granted

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		1,727.5MHz / 1,820 to 1,822.5MHz / Sector 5 of Block 2 - 1,727.5 to 1,730MHz / 1,822.5 to 1,825MHz / Sector 8 of Block 1 - 1,725 to 1,727.5MHz / 1,820 to 1,822.5MHz / Sector 8 of Block 2 - 1,727.5 to 1,730MHz / 1,822.5 to 1,825MHz / Sector 11 of Block 1 - 1,725 to 1,727.5MHz / 1,820 to 1,822.5MHz / Sector 11 of Block 2 - 1,727.5 to 1,730MHz / 1,822.5 to 1,825MHz	Cruzeiro da Fortaleza, Delta, Frutal, Gurinhatã, Ibiraci, Igaratinga, Iguatama, Indianópolis, Ipiacú, Itapagipe, Ituiutaba, Iturama, Lagamar, Lagoa Formosa, Lagoa Grande, Limeira D'Oeste, Luz, Maravilhas, Moema, Monte Alegre de Minas, Monte Santo de Minas, Nova Ponte, Nova Serrana, Papagaios, Pará de Minas, Patos de Minas, Pedrinópolis, Pequi, Perdigão, Pirajuba, Pitangui, Planura, Prata, Presidente Olegário, Rio Paranaíba, Santa Juliana, Santa Vitória, São Francisco de Sales, São José da Varginha, Tupaciguara, Uberaba, Uberlândia, União de Minas e Vazante, of the State of Minas Gerais sector 5 of the State of Bahia sector 8 of the State of Pernambuco sector 11 of the State of Ceará					
PVCP/SPV No. 001/2004 TA RF	22/Jan/04	Band D, extension sub-band of 910 to 912.5 MHz and of 955 to 957.5 MHz.	RJ, ES, MG, AM, RR, AP, PA, MA, BA, SE, PI, CE, RN, PB, PE, AL	5627/2015	11/09/2015	12/03/2031	10.07.2013	Granted
024/2004/PVCP/SPV TA RF	03/May/04	Band E, extension sub-band - 912.5 to 915 MHz / 957.5 to 960 MHz	PR, SC	652/2018	26/01/2018	22/12/2032	18.02.2014	Granted
025/2004/PVCP/SPV TA RF	03/May/04	Band E, in the extension sub-band 912.5 to 915 MHz / 957.5 to 960 MHz	RS	652/2018	26/01/2018	22/12/2032	18.02.2014	Granted

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026/2004/PVCP/SPV TA RF	03/May/04	Band E, extension sub-band 912.5 to 915 MHz / 957.5 to 960 MHz	AC, GO, MS, MT, RO, TO, DF	652/2018	26/01/2018	22/12/2032	18.02.2014	Granted
16/2007/PVCP/SPV TA SMP	07/Dec/07	Radiofrequency sub-band "M" (1,755 to 1765 MHz, for transmission of the Mobile Stations, 1850 to 1860 MHz, for transmission of the Base Radio Stations) 1,775 to 1777.5 MHz; 1,777.5 to 1,780 MHz; 1,780 to 1,782.5 MHz and 1,782.5 to 1,785 MHz, for transmission of the Mobile Stations, 1,870 to 1,872.5 MHz; 1,872.5 to 1,875 MHz; 1,875 to 1,877.5 and 1,877.5 to 1,880 MHz, for transmission of the Base Radio Stations.	SP (lot 7) and AR11 Provision Area XVIII, of Lot 7, Region III, comprehends the entire State of São Paulo and the Provision Area I, of Lots 34, 35, 36, and 37, of the same Public Notice, which comprehends the Municipalities of Alumínio, Araçariguama, Arujá, Atibaia, Barueri, Biritiba-Mirim, Bom Jesus dos Perdões, Bragança Paulista, Cabreúva, Caieiras, Cajamar, Campo Limpo Paulista, Carapicuíba, Cotia, Diadema, Embu, Embu-Guaçú, Ferraz de Vasconcelos, Francisco Morato, Franco da Rocha, Guararema, Guarulhos, Igaratá, Itapeçerica da Serra, Itapeví, Itaquaquecetuba, Itatiba, Itú, Itupeva, Jandira, Jarinu, Joanópolis, Jundiaí, Juquitiba, Mairinque, Mairiporã, Mauá, Mogi das Cruzes, Morungaba, Nazaré Paulista, Osasco, Pedra Bela, Pinhalzinho, Piracaia, Pirapora do Bom Jesus, Poá, Ribeirão Pires, Rio Grande da Serra, Salesópolis, Salto, Santa Izabel, Santana de Parnaíba, Santo André, São Bernardo do	N/A	N/A	07/12/2022	14.10.2019	In progress

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			Campo, São Caetano do Sul, São Lourenço da Serra, São Paulo, São Roque, Suzano, Taboão da Serra, Tuiuti, Vargem, Vargem Grande Paulista and Várzea Paulista, in the State of São Paulo					

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17/2007/PVCP/SPV TA RF	07/Dec/07	Extension sub-band - 2G - Lot 24 1,725.0 to 1,727.5MHz / 1,820.0 to 1,822.5MHz / Lot 25 1,727.5 to 1,730.0MHz / 1,822.5 to 1,825.0MHz / Lot 52 1,725.0 to 1,727.5MHz / 1,820.0 to 1,822.5MHz / Lot 53 1,727.5 to 1,730.0MHz / 1,822.5 to 1,825.0MHz / Lot 54 1,730.0 to 1,732.5MHz / 1,825.0 to 1,827.5MHz / Lot 93 1,775.0 to 1,777.5MHz / 1,870.0 to 1,872.5MHz / Lot 98 1,725.0 to 1,727.5MHz / 1,820.0 to 1,822.5MHz / Lot 99 1,727.5 to 1,730.0MHz / 1,822.5 to 1,825.0MHz / Lot 100 1,775.0 to 1,777.5MHz / 1,870.0 to 1,872.5MHz / Lot 104 1,725.0 to 1,727.5MHz / 1,820.0 to 1,822.5MHz / Lot 105 1,727.5 to 1,730.0MHz / 1,822.5 to 1,825.0MHz.	Lot 24/25 AM, AP, PA MA, RR, Lot 52/53/54 ES, Lot 93 BA, Lot 98/99/100 SE, Lot 104/105 AL, PB, PI, RN	5627/2015	11/09/2015	12/03/2031	10.07.2013	Granted
22/2008/SPV TA RF	29/Apr/08	Sub-band "F" - 3G - 1,920 MHz to 1,935MHz / 2,110MHz to 2,125MHz / Sub-band "I" - 3G - 1,955MHz to 1,965MHz / 2,145MHz to 2,155MHz	BA, SE, RJ, ES, AM, AP, PA, MA, RR, AL, CE, PB, PE, PI, RN, MG	N/A	N/A	30/04/2023	14.10.2019	In progress

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23/2008/SPV TA RF	29/Apr/08	Sub-band "I" - 3G - 1,955MHz to 1,965MHz / 2,145MHz to 2,155MHz	the entire State of São Paulo in the entire State of São Paulo [sic], except for the municipalities of Altinópolis, Aramina, Batatais, Brodósqui, Buritizal, Cajuru, Cássia dos Coqueiros, Colômbia, Franca, Guairá, Guará, Ipuã, Ituverava, Jardinópolis, Miguelópolis, Morro Agudo, Nuporanga, Orlandia, Ribeirão Corrente, Sales de Oliveira, Santa Cruz da Esperança, Santo Antônio da Alegria and São Joaquim da Barra.	N/A	N/A	30/04/2023	14.10.2019	In progress
24/2008/SPV TA RF	29/Apr/08	Sub-band "F"- 3G - 1,920MHz to 1,935MHz / 2,110MHz to 2,125MHz	AC, RO, MT, MS, TO, GO, DF except for the municipalities of Paranaíba, in Mato Grosso do Sul and Buriti Alegre, Cachoeira Dourada, Inaciolândia, Itumbiara, Paranaiguara and São Simão, in Goiás.	N/A	N/A	30/04/2023	14.10.2019	In progress
25/2008/SPV TA RF	29/Apr/08	Sub-band "F"- 3G - 1,920MHz to 1,935MHz / 2,110MHz to 2,125MHz	RS	N/A	N/A	30/04/2023	14.10.2019	In progress
26/2008/SPV TA RF	29/Apr/08	Sub-band "F"- 3G - 1,920MHz to 1,935MHz / 2,110MHz to 2,125MHz	PR, SC	N/A	N/A	30/04/2023	14.10.2019	In progress
66/2008/PVCP/SPV TA RF	08/Sep/08	Sub-band "E" - 2G - 1,740.0 to 1,755.0MHz / 1,835.0 to 1,850.0MHz	Lot 1 (SP, except for AR 11 and sector 33); Lot 2 (Sector 33 PGO)	N/A	N/A	07/12/2022	14.10.2019	In progress
67/2008/PVCP/SPV TA RF	08/Sep/08	Sub-band "E", 912.5MHz to 915.0MHz / 957.5MHz to 960.0MHz	SP, except for AR 11 and sector 33	N/A	N/A	07/12/2022	14.10.2019	In progress

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012/2010/PVCP/SPV TA RF	15/Dec/10	Extension sub-band, 898.5MHz to 901.0MHz / 943.5MHz to 946.0MHz (2.5 MHz + 2.5 MHz)	AR 11 Lot 31: Atibaia, Barueri, Bragança Paulista, Carapicuíba, Cotia, Diadema, Embu, Ferraz de Vasconcelos, Francisco Morato, Franco da Rocha, Guarulhos, Itapeverica da Serra, Itapevi, Itaquaquecetuba, Itu, Jandira, Jundiaí, Mauá, Mogi das Cruzes, Osasco, Poá, Ribeirão Pires, Salto, Santana de Parnaíba, Santo André, São Bernardo do Campo, São Caetano do Sul, São Paulo, Suzano, Taboão da Serra and Várzea Paulista (SP).	N/A	N/A	07/12/2022	Not requested	N/A
24/2011/PVCP/SPV-ANATEL - TA RF	30/May/11	Sub-band "H" - 3G - 1,945 to 1,955MHz / 2,135 to 2,145MHz	GO Municipalities of Sector 22 (Paranaíba/MS) and Sector 25 (Buriti Alegre/GO, Cachoeira Dourada/GO, Inaciolândia/GO, Itumbiara/GO, Paranaiguara/GO and São Simão/GO) from PGO	N/A	N/A	30/04/2023	14.10.2019	In progress
519/2012/SPV/Anatel TA RF	16/Oct/12	2,540 MHz to 2,550 MHz / 2,660 MHz to 2,670 MHz 10 MHz + 10 MHz	DF, MT, PR, RS, TO, AC, SC, RO, MS, GO,	N/A	N/A	18/10/2027	To mature	N/A

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521/2012/SPV/Anatel TA RF	16/Oct/12	2,540 MHz to 2,550 MHz / 2,660 MHz to 2,670 MHz 10 MHz + 10 MHz	SP	N/A	N/A	18/10/2027	To mature	N/A
520/2012/SPV/Anatel TA RF	16/Oct/12	2,540 MHz to 2,550 MHz / 2,660 MHz to 2,670 MHz 10 MHz + 10 MHz	MG, CE, PE, RJ, BA, AM, RN, RR, ES, AP, SE, PB, PI, AL, MA, PA,	N/A	N/A	18/10/2027	To mature	N/A
64/2013/SOR (Leftovers 1.8MHz) TA RF	17/Jun/13	SE8 - 2G - 1,737.5 to 1740.0 MHz / 1832.5 to 1835.0MHz	AC, DF, GO, MS, MT, RO, TO except for the municipalities of Paranaíba, in the State of Mato Grosso do Sul, and Buriti Alegre, Cachoeira Dourada, Inaciolândia, Itumbiara, Paranaiguara and São Simão, in the State of Goiás.	N/A	N/A	30/04/2023	14.10.2019	In progress
64/2013/SOR (Leftovers 1.8MHz) TA RF	17/Jun/13	SE8 - 2G - 1,737.5 to 1740.0 MHz / 1832.5 to 1835.0MHz	RS except for the municipalities of Pelotas, Morro Redondo, Capão do Leão and Turucu.	N/A	N/A	30/04/2023	14.10.2019	In progress
64/2013/SOR (Leftovers 1.8MHz) TA RF	17/Jun/13	SE9 - 2G -1,765.0 to 1770.0 MHz / 1860.0 to 1865.0MHz	AC, DF, GO, MS, MT, PR, RO, RS, SC, TO excluding the municipalities with National Code 43, 64 and 67 (Registration Areas 43, 64 and 67).	N/A	N/A	30/04/2023	14.10.2019	In progress
64/2013/SOR (Leftovers 1.8MHz) TA RF	17/Jun/13	SE9 - 2G - 1,765.0 to 1770.0 MHz / 1860.0 to 1865.0MHz	GO, MS Municipalities with National Code 64 and 67 (Registration Areas 64 and 67), except for the municipalities of Paranaíba, in the State of Mato Grosso do Sul, and Buriti Alegre, Cachoeira Dourada, Inaciolândia, Itumbiara, Paranaiguara and São Simão, in the State of Goiás.	N/A	N/A	30/04/2023	14.10.2019	In progress

