

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

**Report for quarter ending: Sep 2020**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.98		98.58	99.98
				2G			100.00				
				3G			100.00				
	2	Successful data transmission download attempts	>80%	All Generations						100.00	
				2G (GSM)		100.00	98.32	100.00			100.00
				3G		100.00	97.72	100.00			100.00
				4G		100.00		100.00			100.00
	3	Successful data transmission upload attempts	>75%	All Generations						100.00	
				2G (GSM)		100.00	98.47	100.00			100.00
				3G		100.00	98.53	100.00			100.00
				4G		100.00		100.00			100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
				2G	Plan 1	104.00	58.59	186.10			186.10
				3G	Plan 1	3041.00	1472.51	1547.74		6257.94	1547.74
				4G	Plans	29256.00		4920.26			4920.26
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
				2G	Plan 1	137.00	130.33	256.76			256.76
				3G	Plan 1	4399.00	3189.17	4572.14			4572.14
				4G	Plans	41811.00		8361.31		27678.69	8361.31
	6	Latency	Data <250	All Generations						54.65	
				2G (GSM)		150.00	181.50	106.50			106.50
				3G		86.00	63.17	45.00			45.00
				4G		45.00		33.00			33.00
	7	PDP Context Activation Success Rate	≥95%	All Generations						99.71	
				2G (GSM)		99.95	99.35	98.45			98.45
				3G		99.99	99.44	96.73			96.73
				4G		99.80		96.98			96.98
	8	Drop rate :	≤5%	All Generations						0.47	
2G (GSM)				2.87	0.78	4.27			4.27		
3G				0.55	1.17	1.00			1.00		
4G				0.27		0.52			0.52		
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.99		97.25	99.99
				2G			100.00				
				3G			100.00				
	2	Successful data transmission download attempts	>80%	All Generations						100.00	
				2G (GSM)		100.00	98.30	100.00			100.00
				3G		100.00	98.60	100.00			100.00
				4G		100.00		100.00			100.00
	3	Successful data transmission upload attempts	>75%	All Generations						100.00	
				2G (GSM)		100.00	98.60	100.00			100.00
				3G		100.00	98.30	100.00			100.00
				4G		100.00		100.00			100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
				2G	Plan 1	88.00	90 (Postpaid Data Plan 50)	157.58			157.58

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					90 (Postpaid Data				
					90(Postpaid Data Plan 170)				
					90(Postpaid Data Plan 225)				
					90(Postpaid Data Plan 240)				
					90(Postpaid Data Plan 290)				
					90(Postpaid Data Plan 340)				
					9(Postpaid Data Plan 501)				
					90(Postpaid Data Plan 549)				
					90(Postpaid Data Plan 666)				
					90(Postpaid Data Plan 901)				
					90(Postpaid Data Plan 1711)				
					90(Prepaid Data Special Tariff Voucher-4)				
					90(Prepaid Data Special Tariff Voucher-7)				
					90(Prepaid Data Special Tariff Voucher-16)				
					90(Prepaid Data Special Tariff Voucher-17)				
					90(Prepaid Data Special Tariff Voucher-56)				
					90(Prepaid Data Special Tariff Voucher-109)				
					90(Prepaid Data Special Tariff Voucher-198)				
					90(Prepaid Data Special Tariff Voucher-597)				

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Report for quarter ending: Sep 2020				Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					90(Prepaid Data Special Tariff Voucher-1098)				
					90(Prepaid Data Special Tariff Voucher-1197)				
					90(Prepaid Data Special Tariff Voucher-1498)				
			3G	Plan 1	1796.00	1251(Postpaid Data Plan 50)	2415.84		2415.84
						1251(Postpaid Data Plan 75)			
						1251(Postpaid Data Plan 170)			
						1251(Postpaid Data Plan 225)			
						1251(Postpaid Data Plan 240)			
						1251(Postpaid Data Plan 290)			
						1251(Postpaid Data Plan 340)			
						1251(Postpaid Data Plan 501)			
						1251(Postpaid Data Plan 549)			
						1251(Postpaid Data Plan 666)			
						1251(Postpaid Data Plan 901)			
						1251(Postpaid Data Plan 1711)			
						1251(Prepaid Data Special Tariff Voucher-4)			
						1251(Prepaid Data Special Tariff Voucher-7)			
						1251(Prepaid Data Special Tariff Voucher-16)			
						1251(Prepaid Data Special Tariff Voucher-17)			

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020											
				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
Assam					1251(Prepaid Data Special Tariff Voucher-56)						
					1251(Prepaid Data Special Tariff Voucher-109)						
					1251(Prepaid Data Special Tariff Voucher-198)						
					1251(Prepaid Data Special Tariff Voucher-597)						
					1251(Prepaid Data Special Tariff Voucher-1098)						
					1251(Prepaid Data Special Tariff Voucher-1197)						
					1251(Prepaid Data Special Tariff Voucher-1498)						
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	4G	Plans	13425.00		9279.49		6599.94	9279.49
				CDMA	Plan 1						
				2G	Plan 1	176.00	148(Postpaid Data Plan 50)	218.48			218.48
							148(Postpaid Data Plan 75)				
							148(Postpaid Data Plan 170)				
							148(Postpaid Data Plan 225)				
							148(Postpaid Data Plan 240)				
							148(Postpaid Data Plan 290)				
				148(Postpaid Data Plan 501)							
				148(Postpaid Data Plan 549)							
				148(Postpaid Data Plan 666)							
				148(Postpaid Data Plan 901)							

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Report for quarter ending: Sep 2020				Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					148(Postpaid Data Plan 1711)				
					148(Prepaid Data Special Tariff Voucher-4)				
					148(Prepaid Data Special Tariff Voucher-7)				
					148(Prepaid Data Special Tariff Voucher-16)				
					148(Prepaid Data Special Tariff Voucher-17)				
					148(Prepaid Data Special Tariff Voucher-56)				
					148(Prepaid Data Special Tariff Voucher-109)				
					Prepaid Data Special Tariff Voucher-198				
					Prepaid Data Special Tariff Voucher-597				
					148(Prepaid Data Special Tariff Voucher-1098)				
					148(Prepaid Data Special Tariff Voucher-1197)				
					148(Prepaid Data Special Tariff Voucher-1498)				
			3G	Plan 1	3257.00	2887(Postpaid Data Plan 50)	5738.84		5738.84
						2887(Postpaid Data Plan 75)			
						2887(Postpaid Data Plan 170)			
						2887(Postpaid Data Plan 225)			
						2887(Postpaid Data Plan 240)			

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Report for quarter ending: Sep 2020					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
					2887(Postpaid Data Plan 290)					
					2887(Postpaid Data Plan 340)					
					2887(Postpaid Data Plan 501)					
					2887(Postpaid Data Plan 549)					
					2887(Postpaid Data Plan 666)					
					2887(Postpaid Data Plan 901)					
					2887(Postpaid Data Plan 1711)					
					2887(Prepaid Data Special Tariff Voucher-4)					
					2887(Prepaid Data Special Tariff Voucher-7)					
					2887(Prepaid Data Special Tariff Voucher-16)					
					2887(Prepaid Data Special Tariff Voucher-17)					
					2887(Prepaid Data Special Tariff Voucher-56)					
					2887(Prepaid Data Special Tariff Voucher-109)					
					2887(Prepaid Data Special Tariff Voucher-198)					
					2887(Prepaid Data Special Tariff Voucher-597)					
					2887(Prepaid Data Special Tariff Voucher-1098)					
					2887(Prepaid Data Special Tariff Voucher-1197)					

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Sl. No.	Parameters	Benchmarks	Generations		Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
						2887(Prepaid Data Special Tariff Voucher-1498)					
			4G	Plans	21790.00		14473.63		35254.90	14473.63	
6	Latency	Data <250	All Generations						40.54		
			2G (GSM)		184.00	252.60	195.00			195.00	
			3G		158.00	162.30	187.00			187.00	
			4G		56.00		39.33			39.33	
7	PDP Context Activation Success Rate	≥95%	All Generations						99.81		
			2G (GSM)		99.59	98.20	98.16			98.16	
			3G		98.82	98.30	98.28			98.28	
			4G		99.54		99.15			99.15	
8	Drop rate :	≤5%	All Generations						0.51		
			2G (GSM)		2.94		2.66			2.66	
			3G		0.41	1.30	0.65			0.65	
			4G		0.45		0.53			0.53	
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.87		98.48	99.87
				2G			100.00				
				3G			100.00				
	2	Successful data transmission download attempts	>80%	All Generations						100.00	
				2G (GSM)		99.00	100.00	100.00			100.00
				3G			100.00	100.00			100.00
				4G		100.00		100.00			100.00
	3	Successful data transmission upload attempts	>75%	All Generations						100.00	
				2G (GSM)		100.00	100.00	100.00			100.00
				3G			100.00	100.00			100.00
				4G		100.00		100.00			100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
				2G	Plan 1	38.00	72.3(2G Postpaid)	79.43			79.43
							72.3(Prepaid 2G Data)				
				3G	Plan 1		822.1(3G Postpaid Data Plans)	2298.63			2298.63
							822.1(3G Prepaid Data Plan)				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
				2G	Plan 1	139.00	113.4(2G Postpaid Data Plans)	155.90			155.90
							113.4(Prepaid 2G Data)				
				3G	Plan 1		2001.1(3G Postpaid)	4721.51			4721.51
						2001.1(3G Prepaid Data Plan)					
4G				Plans	10008.00		7728.46		18972.87	7728.46	

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Chennai	6	Latency	Data <250	All Generations				56.88		
				2G (GSM)	149.00	195.86	125.45		125.45	
				3G		100.23	81.38		81.38	
				4G	45.00		72.74		72.74	
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.82	
				2G (GSM)	99.89	98.32	99.34		99.52	
				3G		98.06	96.39		96.39	
				4G	99.41		97.27		97.27	
	8	Drop rate :	≤5%	All Generations					0.60	
				2G (GSM)	4.56		2.08		2.08	
				3G		0.82	1.40		1.40	
				4G	0.70		0.34		0.34	
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00				
				3G						
	2	Successful data transmission download attempts	>80%	All Generations						
				2G (GSM)		98.20				
				3G		99.17				
	3	Successful data transmission upload attempts	>75%	All Generations						
				2G (GSM)		97.67				
				3G		98.80				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1		45.00			
				3G	Plan 1		485.00			
				4G	Plans					
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1		107.00			
				3G	Plan 1		3355.00			
				4G	Plans					
	6	Latency	Data <250	All Generations						
				2G (GSM)		216.00				
				3G		28.00				
				4G						
7	PDP Context Activation Success Rate	≥95%	All Generations							
			2G (GSM)		97.66					
			3G		99.10					
			4G							
8	Drop rate :	≤5%	All Generations							
			2G (GSM)		3.16					
			3G		1.73					
			4G							
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00		99.47	96.45	98.52	99.47	
			3G							
2	Successful data	>80%	All Generations					100.00		



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Sl. No.	Parameters	Benchmarks	Generations		Compliance Status								
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone			
Delhi	transmission download attempts		2G (GSM)		100.00		94.84			94.84			
			3G				96.07			96.07			
			4G		100.00		99.23			99.23			
	3	Successful data transmission upload attempts	>75%	All Generations					100.00				
				2G (GSM)		100.00		99.81		99.81			
				3G				99.34		99.34			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1								
				2G	Plan 1	82.00		131.00		131.00			
				3G	Plan 1			1551.00		1551.00			
				4G	Plans	7639.00		7254.67		4439.44	7254.67		
				Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
						2G	Plan 1	131.00		215.33		215.33	
	3G	Plan 1					5615.00		5615.00				
				4G	Plans	22337.00		19115.67		22832.92	19115.67		
				6	Latency	Data <250	All Generations					39.98	
							2G (GSM)		236.00		207.00		207.00
	3G							93.67		93.67			
				4G		63.00		53.67		53.67			
				7	PDP Context Activation Success Rate	≥95%	All Generations				99.47	99.78	
							2G (GSM)		99.47		99.25		99.25
3G							97.26		97.26				
			4G		98.72		99.87		99.87				
			8	Drop rate :	≤5%	All Generations				3.96	0.41		
						2G (GSM)		2.14		1.52		1.52	
3G							0.26		0.26				
			4G		0.28		0.23		0.23				
			1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	98.00	99.82		98.40	99.82
						2G (GSM)							
2	Successful data transmission download attempts	>80%	All Generations			99.00			100.00				
			2G (GSM)		100.00		100.00			100.00			
			3G				100.00		100.00				
			4G		100.00		100.00			100.00			
			3	Successful data transmission upload attempts	>75%	All Generations			99.00			100.00	
						2G (GSM)		100.00		100.00			100.00
3G							99.83		99.83				
			4G		100.00		100.00			100.00			
			4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
						2G	Plan 1	108.00		114.30		114.30	
3G	Plan 1					1842 Kbps	2199.87		2199.87				
			4G	Plans	6970.00		7683.03		4699.73	7683.03			
			5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
						2G	Plan 1	185.00		184.90		184.90	
3G	Plan 1					4680 Kbps	6490.04		6490.04				
			4G		14579.00		19544.48		24913.19	19544.48			

**Gujarat**

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
Himachal Pradesh	6	Latency	Data <250	All Generations		112 ms		44.15	
				2G (GSM)	233.00		119.33		119.33
				3G			49.33		49.33
				4G	25.00		38.00		38.00
	7	PDP Context Activation Success Rate	≥95%	All Generations		99.70		99.82	
				2G (GSM)	99.98		97.56		97.56
				3G			98.26		98.26
				4G	99.96		99.79		99.79
	8	Drop rate :	≤5%	All Generations		1.41		0.44	
				2G (GSM)	4.96		1.69		1.69
				3G			0.80		0.80
				4G	0.74		0.29		0.29
Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00	100.00	99.80	98.23	99.80
				2G (GSM)					
				3G					
	2	Successful data transmission download attempts	>80%	All Generations		97.00		100.00	
				2G (GSM)	100.00		100.00		100.00
				3G	100.00		100.00		100.00
				4G	100.00		100.00		100.00
	3	Successful data transmission upload attempts	>75%	All Generations		95.00		100.00	
				2G (GSM)	100.00		100.00		100.00
				3G	100.00		100.00		100.00
				4G	100.00		100.00		100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1				
2G				Plan 1	83.00	68.00	88.39		88.39
3G				Plan 1	1256.00	788.00	2257.68		2257.68
4G				Plans	1169.00		6675.87		13105.28
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
			2G	Plan 1	150.00	128.00	171.27		171.27
			3G	Plan 1	3477.00	2481.00	4799.30		4799.30
			4G	Plans	5145.00		15636.69		30022.94
6	Latency	Data <250	All Generations		84.00		45.01		
			2G (GSM)	215.00		135.50		135.50	
			3G	164.00		66.25		66.25	
			4G	96.00		39.42		39.42	
7	PDP Context Activation Success Rate	≥95%	All Generations		99.20		99.86		
			2G (GSM)	99.86		97.50		97.50	
			3G	100.00		96.54		96.54	
			4G	99.20		99.52		99.52	
8	Drop rate :	≤5%	All Generations		0.90		0.38		
			2G (GSM)	2.02		4.08		4.08	
			3G	0.44		0.48		0.48	
			4G	0.33		0.37		0.37	
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.33	99.86		98.53	99.86
			2G (GSM)						

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Haryana	2	Successful data transmission download attempts	>80%	All Generations			88.33			100.00				
				2G (GSM)		100.00		100.00			100.00			
				3G				100.00			100.00			
				4G		100.00		100.00			100.00			
	3	Successful data transmission upload attempts	>75%	All Generations			83.33			100.00				
				2G (GSM)		100.00		100.00			100.00			
				3G				100.00			100.00			
				4G		100.00		100.00			100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									
				2G	Plan 1		85.00	82.67	129.68		129.68			
				3G	Plan 1			1614.33	1044.34		1044.34			
				4G	Plans		2347.00		7287.81		8614.33	7287.81		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
				2G	Plan 1		219.00	126.33	208.46		208.46			
				3G	Plan 1			1739.33	4535.22		4535.22			
				4G	Plans		6884.00		13912.19		26646.55	13912.19		
	6	Latency	Data <250	All Generations			112.33			45.88				
				2G (GSM)		197.00		147.00			147.00			
				3G				137.33			137.33			
				4G		111.00		49.50			49.50			
7	PDP Context Activation Success Rate	≥95%	All Generations			95.96			99.83					
			2G (GSM)		99.83		98.88			98.88				
			3G				98.23			98.23				
			4G		99.20		99.56			99.56				
8	Drop rate :	≤5%	All Generations			4.22			0.44					
			2G (GSM)		1.86		4.23			4.23				
			3G				1.25			1.25				
			4G		0.03		0.35			0.35				
Jammu and Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	97.67	85.23		97.37	85.23			
				3G										
	2	Successful data transmission download attempts	>80%	All Generations			95.00			100.00				
				2G (GSM)		100.00		100.00			100.00			
				3G		100.00								
				4G		100.00								
	3	Successful data transmission upload attempts	>75%	All Generations			86.00			100.00				
				2G (GSM)		100.00		100.00			100.00			
				3G		100.00								
				4G		100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									
				2G	Plan 1		194.00	38.00	66.73		66.73			
				3G	Plan 1		316.00	1586.00						
				4G	Plans		2665.00			4221.42				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
2G				Plan 1		232.00	84.00	144.73		144.73				
3G				Plan 1		342.00	2478.00							



**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status						
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Kerala	2	Successful data transmission download attempts	>80%	All Generations			97.75		100.00	
				2G (GSM)	100.00		100.00		100.00	
				3G			100.00		100.00	
				4G	100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations			97.26		100.00	
				2G (GSM)	100.00		100.00		100.00	
				3G			100.00		100.00	
				4G	100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	54.00	46.28	197.62		175.35
				3G	Plan 1		900.33	3647.11		3459.67
				4G	Plans	4274.00	1358.30	20414.22	7637.67	16805.67
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	169.00	84.41	231.02		215.22
				3G	Plan 1		1837.21	7469.32		6190.78
				4G	Plans	15195.00	5505.62	33069.82	28903.05	32508.43
	6	Latency	Data <250	All Generations			120.00		50.73	
				2G (GSM)	226.00		99.67		92.17	
				3G			29.00		31.50	
				4G	88.00		19.50		22.50	
	7	PDP Context Activation Success Rate	≥95%	All Generations			98.16		99.87	
				2G (GSM)	99.62		99.16		99.38	
				3G			96.39		97.76	
				4G	99.65		99.46		99.65	
8	Drop rate :	≤5%	All Generations			0.51		0.51		
			2G (GSM)	4.04		4.64		4.12		
			3G			1.32		1.36		
			4G	0.90		0.21		0.17		
Karnataka	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	100.00	99.24	98.74	99.24
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)	100.00	100.00	100.00		100.00	
				3G		100.00	100.00		100.00	
				4G	100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)	100.00	100.00	100.00		100.00	
				3G		100.00	100.00		100.00	
				4G	100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	90.00	44.73	203.15		203.15
				3G	Plan 1		2697.75	8935.97		8935.97
				4G	Plans	4762.00		30754.19	4607.92	30754.19
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
2G				Plan 1	188.00	134.15	259.19		259.19	
3G				Plan 1		5291.93	12269.77		12269.77	

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020										Compliance Status				
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone				
	6	Latency	Data <250	4G	Plans	17723.00		36043.85		24320.88	36043.85			
				All Generations			261.18			45.36				
				2G (GSM)		193.00		70.20		70.20				
				3G				21.67		21.67				
	7	PDP Context Activation Success Rate	≥95%	4G		23.00		17.00			17.00			
				All Generations			95.29			99.85				
				2G (GSM)		99.80		98.63		98.63				
				3G				95.49		95.49				
	8	Drop rate :	≤5%	4G		99.71		95.66			95.66			
				All Generations			0.63			0.54				
				2G (GSM)		4.69		2.25		2.25				
				3G				0.57		0.57				
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	99.21	99.95		98.36	99.92			
				2G (GSM)										
	2	Successful data transmission download attempts	>80%	All Generations			98.36			100.00				
				2G (GSM)		100.00		100.00			89.72			
				3G				100.00			95.65			
	3	Successful data transmission upload attempts	>75%	4G		100.00		100.00			98.50			
				All Generations			96.09			100.00				
				2G (GSM)		100.00		100.00			99.17			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									
				2G	Plan 1	88.00	104.00	93.37			61.59			
				3G	Plan 1		4044.00	4599.33			2829.03			
				4G	Plans	11237.00		10789.63		5558.99	6918.63			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
				2G	Plan 1	143.00	121.00	152.97			172.38			
				3G	Plan 1		4142.00	8132.46			6167.70			
				4G	Plans	17352.00		23394.87		28539.75	13429.94			
	6	Latency	Data <250	All Generations			116.00			57.80				
				2G (GSM)		231.00		114.17			160.14			
				3G				61.33			162.37			
				4G		60.00		36.08			48.37			
	7	PDP Context Activation Success Rate	≥95%	All Generations			97.32			99.70				
				2G (GSM)		99.98		100.00			99.11			
				3G				99.96			97.77			
				4G		99.92		97.03			99.93			
8	Drop rate :	≤5%	All Generations			2.02			0.59					
			2G (GSM)		4.41		2.16			4.43				
			3G				1.16			1.12				
			4G		0.64		0.38			0.31				
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00		99.78		98.34	99.78				
			2G			98.02								

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

**Report for quarter ending: Sep 2020**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
		rate.	3G			98.01					
2	Successful data transmission download attempts	>80%	All Generations						100.00		
			2G (GSM)		100.00	100.00	93.83			93.83	
			3G			100.00	99.83			99.83	
			4G		100.00		100.00			100.00	
3	Successful data transmission upload attempts	>75%	All Generations						100.00		
			2G (GSM)		100.00	100.00	98.67			98.67	
			3G			100.00	100.00			100.00	
			4G		100.00		100.00			100.00	
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							
			2G	Plan 1	107.00		76.55			76.55	
			3G	Plan 1		1372(3G Postpaid Data Plans -FMC-50)		3661.11			3661.11
						1452(3G Postpaid Data Plans FMC-225)					
						1642(3G Postpaid Data Plans FMC-501)					
						1331(3G Postpaid Data Plans FMC-666)					
						1444(3G Postpaid Data Plans FMC-901)					
						1758(3G Prepaid Data Recharge Vouchers-43)					
						1841(3G Prepaid Data Recharge Vouchers-56)					
						2365(3G Prepaid					
						2145(3G Prepaid Data Recharge Vouchers-395)					
						2355(3G Prepaid Data Recharge Vouchers-443)					
						2896(3G Prepaid Data Recharge Vouchers-548)					
						3265(3G Prepaid Data Recharge Vouchers-597)					

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020					Compliance Status						
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Madhya Pradesh	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.				3145(3G Prepaid				
				4G	Plans	7494.00		7570.93		7126.12	7570.93
				CDMA	Plan 1						
				2G	Plan 1	144.00		165.43			165.43
				3G	Plan 1		2145(3G Postpaid Data Plans -FMC-75)	6129.99			6129.99
							2465(3G Postpaid				
							3489(3G Postpaid Data Plans FMC-501)				
							3145(3G Postpaid Data Plans FMC-666)				
							3482(3G Postpaid Data PlansFMC-901)				
							3256(3G Prepaid Data Recharge Vouchers-43)				
							2478(3G Prepaid				
							2124(3G Prepaid Data Recharge Vouchers-197)				
							2894(3G Prepaid				
							3687(3G Prepaid Data Recharge Vouchers-443)				
							2148(3G Prepaid Data Recharge Vouchers-548)				
			2627(3G Prepaid Data Recharge Vouchers-597)								
			2458(3G Prepaid Data Recharge Vouchers-1197)								
			4G	Plans	11982.00		15160.03		20351.53	15160.03	
6	Latency	Data <250	All Generations						51.58		
			2G (GSM)		123.00	198.00	180.68			180.68	
			3G			113.70	95.97			95.97	
			4G		39.00		42.80			42.80	
7	PDP Context Activation Success Rate	≥95%	All Generations						99.75		
			2G (GSM)		99.87	97.80	99.89			99.89	
			3G			98.11	99.19			99.19	



**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020											
				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
8	Drop rate :	≤5%	4G		99.97		98.02			98.02	
			All Generations						0.54		
			2G (GSM)		4.89		0.93			0.93	
			3G			1.45	1.92			1.92	
			4G		0.74		0.43		0.43		
Mumbai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00		99.95	99.07	98.66	99.95
				3G							
	2	Successful data transmission download attempts	>80%	All Generations						100.00	
				2G (GSM)		100.00		100.00	100.00		100.00
				3G				100.00	100.00		100.00
				4G		100.00		100.00			100.00
	3	Successful data transmission upload attempts	>75%	All Generations						100.00	
				2G (GSM)		100.00		100.00	100.00		100.00
				3G				100.00	99.54		100.00
				4G		100.00		100.00			100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	98.00		170.01	57.67		170.01
				3G	Plan 1			4530.30	802.59		4530.30
				4G	Plans	6876.00		21585.67		3891.54	21585.67
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
				Plan 2							
			2G	Plan 1	189.00		210.22	88.98		210.22	
			3G	Plan 1			7083.35	865.72		7083.35	
			4G	Plans	13997.00		32380.63		13706.44	32380.63	
6	Latency	Data <250	All Generations						40.17		
			2G (GSM)		112.00		87.83			87.83	
			3G				17.34	230.49		17.34	
			4G		32.00		13.17			13.17	
7	PDP Context Activation Success Rate	≥95%	All Generations					98.25	99.72		
			2G (GSM)		99.98		98.01			98.01	
			3G				96.02			96.02	
			4G		99.95		99.94			99.94	
8	Drop rate :	≤5%	All Generations					2.11	0.28		
			2G (GSM)		3.61		3.95			3.95	
			3G				1.66			1.66	
			4G		0.38		0.28			0.28	
	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.99		97.45	99.99
				2G			100.00				
				3G			100.00				
	2	Successful data transmission download attempts	>80%	All Generations						100.00	
				2G (GSM)		100.00	100.00	100.00			100.00
				3G		100.00	100.00	100.00			100.00
				4G		100.00		100.00			100.00
3	Successful data	>75%	All Generations						100.00		

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
	transmission upload attempts		2G (GSM)	100.00	100.00	100.00			100.00		
			3G	100.00	100.00	100.00			100.00		
			4G	100.00		100.00			100.00		
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA Plan 1								
			2G Plan 1	122.00	40.62(Postpaid Data Plans 99)	148.25			148.25		
					40.62(Postpaid Data Plans 125)						
					40.62(Postpaid Data Plans 225)						
					40.62(Postpaid Data Plans 501)						
					40.62(Postpaid Data Plans 901)						
					40.62(Prepaid Data Special Tariff Vouchers-17 )						
					40.62(Prepaid Data						
					40.62(Prepaid Data Special Tariff Vouchers-78 )						
					40.62(Prepaid Data Special Tariff Vouchers-98)						
					40.62(Prepaid Data Special Tariff Vouchers-139)						
					40.62(Prepaid Data						
					40.62(Prepaid Data Special Tariff Vouchers-561)						
					40.62(Prepaid Data Special Tariff Vouchers-821)						
					40.62(Prepaid Data Special Tariff Vouchers-1011)						
					3G Plan 1	2004.00	1818.80(Postpaid	3243.58			3243.58
							1818.80(Postpaid Data Plans 125)				
				1818.80(Postpaid Data Plans 225)							
				1818.80(Postpaid Data Plans 501)							
				1818.80(Postpaid							

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
North East-I						1818.80(Prepaid Data Special Tariff Vouchers-17)				
						1818.80(Prepaid Data Special Tariff Vouchers-39)				
						1818.80(Prepaid Data Special Tariff Vouchers-98)				
						1818.80(Prepaid Data Special Tariff Vouchers-139)				
						1818.80(Prepaid Data Special Tariff Vouchers-251)				
						1818.80(Prepaid Data Special Tariff Vouchers-821)				
						1818.80(Prepaid Data Special Tariff Vouchers-1011)				
				4G	Plans	10516.00		5349.02		10346.91
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	202.00	80.50(Postpaid Data Plans 99)	197.85		197.85
							80.50(Postpaid Data Plans 125)			
							80.50(Postpaid Data Plans 225)			
							80.50(Postpaid Data Plans 501)			
							80.50(Postpaid Data Plans 901)			
							80.50(Prepaid Data Special Tariff Vouchers-17)			
						80.50(Prepaid Data Special Tariff Vouchers-39)				
						80.50(Prepaid Data Special Tariff Vouchers-78)				

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					80.50(Prepaid Data Special Tariff Vouchers-98)				
					80.50(Prepaid Data Special Tariff Vouchers-139)				
					80.50(Prepaid Data Special Tariff Vouchers-251)				
					80.50(Prepaid Data Special Tariff Vouchers-561)				
					80.50(Prepaid Data Special Tariff Vouchers-821)				
					80.50(Prepaid Data Special Tariff Vouchers-1011)				
			3G	Plan 1	3055.00	2836.90(Postpaid Data Plans 99)	4909.14		4909.14
						2836.90(Postpaid Data Plans 125)			
						2836.90(Postpaid Data Plans 501)			
						2836.90(Postpaid Data Plans 901)			
						2836.90(Prepaid Data Special Tariff Vouchers-17)			
						2836.90(Prepaid Data Special Tariff Vouchers-39)			
						2836.90(Prepaid Data Special Tariff Vouchers-78)			
						2836.90(Prepaid Data Special Tariff Vouchers-98)			
						2836.90(Prepaid Data Special Tariff Vouchers-139)			
						2836.90(Prepaid Data Special Tariff Vouchers-251)			

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020					Compliance Status						
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
North East - II						2836.90(Prepaid Data Special Tariff Vouchers-561)					
						2836.90(Prepaid Data Special Tariff Vouchers-821)					
						2836.90(Prepaid Data Special Tariff Vouchers-1011)					
				4G	Plans	20441.00		11318.83		29576.84	11318.83
	6	Latency	Data <250	All Generations						54.88	
				2G (GSM)		187.00	245.67	211.33			211.33
				3G		158.00	106.00	151.67			151.67
				4G		57.00		45.00			45.00
	7	PDP Context Activation Success Rate	≥95%	All Generations						98.85	
				2G (GSM)		99.42	97.21	98.16			98.16
				3G		99.83	95.25	98.28			98.28
				4G		99.42		99.15			99.15
	8	Drop rate :	≤5%	All Generations						0.65	
				2G (GSM)		3.18		3.43			3.43
			3G		0.49	0.48	0.81			0.81	
			4G		0.55		0.59			0.59	
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations			100.00					
			2G (GSM)								
2	Successful data transmission download attempts	>80%	All Generations			98.00					
			2G (GSM)								
			3G								
			4G								
3	Successful data transmission upload attempts	>75%	All Generations			97.00					
			2G (GSM)								
			3G								
			4G								
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							
			2G	Plan 1							
			3G	Plan 1		382 kbps					
			4G	Plans							
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
			2G	Plan 1							
			3G	Plan 1		975 kbps					
			4G	Plans							
6	Latency	Data <250	All Generations			118 ms					
			2G (GSM)								
			3G								
			4G								
7	PDP Context Activation	≥95%	All Generations			98.00					

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status						
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
8	Success Rate		2G (GSM)							
			3G							
			4G							
	Drop rate :	≤5%	All Generations		0.62					
			2G (GSM)							
			3G							
1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00		99.99		98.50	99.99	
			2G (GSM)		100.00					
			3G		100.00					
			4G							
2	Successful data transmission download attempts	>80%	All Generations					100.00		
			2G (GSM)	100.00	100.00	100.00			100.00	
			3G		100.00	100.00			100.00	
			4G	100.00		100.00			100.00	
3	Successful data transmission upload attempts	>75%	All Generations					100.00		
			2G (GSM)	100.00	100.00	100.00			100.00	
			3G		100.00	100.00			100.00	
			4G	100.00		100.00			100.00	
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
			2G	Plan 1	89.00	127(Postpaid Data Plans 99)	75.25			75.25
						127(Postpaid Data Plans 225)				
						127(Postpaid Data Plans 325)				
						127(Postpaid Data Plans 525)				
						127(Postpaid Data Plans 799)				
						127(Postpaid Data Plans 1125)				
						127(Postpaid Data Plans 1525)				
						127(Prepaid Data Special Tariff Vouchers-7 )				
						127(Prepaid Data Special Tariff Vouchers-13)				
						127(Prepaid Data Special Tariff Vouchers-09)				

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
						127(Prepaid Data Special Tariff Vouchers-18)				
						127(Prepaid Data Special Tariff Vouchers-29)				
						127(Prepaid Data Special Tariff Vouchers-56)				
						127(Prepaid Data Special Tariff Vouchers-58)				
						127(Prepaid Data Special Tariff Vouchers-68)				
						127(Prepaid Plan Vouchers-74)				
						127(Prepaid Data Special Tariff Vouchers-78)				
						127(Prepaid Plan Vouchers-81)				
						127(Prepaid Data Special Tariff Vouchers-98)				
						127(Prepaid Data Special Tariff Vouchers-108)				
						127(Prepaid Data Special Tariff Vouchers-151)				
						127(PrepaidPlan Special Tariff Vouchers-187)				
						127(Prepaid Data Special Tariff Vouchers-186)				
						127(Prepaid Data Special Tariff Vouchers-198)				
						127(Prepaid Data Special Tariff Vouchers-319)				

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					127(Prepaid Data Special Tariff Vouchers-399)				
					127(Prepaid Data Special Tariff Vouchers-429)				
					127(Prepaid Data Special Tariff Vouchers-458)				
					127(Prepaid Data Special Tariff Vouchers-666)				
					127(Prepaid Data Special Tariff Vouchers-1699)				
			3G	Plan 1	2286(Postpaid Data Plans 99)	4427.37			4427.37
					2286(Postpaid Data Plans 225)				
					2286(Postpaid Data Plans 325)				
					2286(Postpaid Data Plans 725)				
					2286(Postpaid Data Plans 799)				
					2286(Postpaid Data Plans 1125)				
					2286(Postpaid Data Plans 1525)				
					2286(Prepaid Data Special Tariff Vouchers-7)				
					2286(Prepaid Data Special Tariff Vouchers-13)				
					2286(Prepaid Data Special Tariff Vouchers-09)				
					2286(Prepaid Data Special Tariff Vouchers-18)				
					2286(Prepaid Data Special Tariff Vouchers-29)				



**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Orissa					2286(Prepaid Data Special Tariff Vouchers-56)					
					2286(Prepaid Data Special Tariff Vouchers-58)					
					2286(Prepaid Data Special Tariff Vouchers-68)					
					2286(Prepaid Plan Vouchers-74)					
					2286(Prepaid Data Special Tariff Vouchers-78)					
					2286(Prepaid Plan Vouchers-81)					
					2286(Prepaid Data Special Tariff Vouchers-98)					
					2286(Prepaid Data Special Tariff Vouchers-108)					
					2286(Prepaid Data Special Tariff Vouchers-151)					
					2286(PrepaidPlan Special Tariff Vouchers-187)					
					2286(Prepaid Data Special Tariff Vouchers-186)					
					2286(Prepaid Data Special Tariff Vouchers-198)					
					2286(Prepaid Data Special Tariff Vouchers-319)					
					2286(Prepaid Data Special Tariff Vouchers-399)					
				2286(Prepaid Data Special Tariff Vouchers-429)						

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status						
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.				2286(Prepaid Data Special Tariff Vouchers-458)				
						2286(Prepaid Data Special Tariff Vouchers-666)				
						2286(Prepaid Data Special Tariff Vouchers-1699)				
			4G	Plans	9949.00		13530.36		9448.59	13530.36
			CDMA	Plan 1						
			2G	Plan 1	142.00		223(Postpaid Data Plans 225)	193.87		193.87
							223(Postpaid Data Plans 325)			
							223(Postpaid Data Plans 525)			
							223(Postpaid Data Plans 799)			
							223(Postpaid Data Plans 1125)			
							223(Postpaid Data Plans 1525)			
							223(Prepaid Data Special Tariff Vouchers-13)			
							223(Prepaid Data Special Tariff Vouchers-09)			
							223(Prepaid Data Special Tariff Vouchers-18)			
							223(Prepaid Data Special Tariff Vouchers-56)			
				223(Prepaid Data Special Tariff Vouchers-68)						
				223(Prepaid Plan Vouchers-74)						

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					223(Prepaid Data Special Tariff Vouchers-78)				
					223(Prepaid Plan				
					223(Prepaid Data Special Tariff Vouchers-98)				
					223(Prepaid Data Special Tariff Vouchers-108)				
					223(Prepaid Data Special Tariff Vouchers-151)				
					223(PrepaidPlan				
					223(Prepaid Data Special Tariff Vouchers-186)				
					223(Prepaid Data Special Tariff Vouchers-198)				
					223(Prepaid Data Special Tariff Vouchers-319)				
					223(Prepaid Data Special Tariff Vouchers-399)				
					223(Prepaid Data Special Tariff Vouchers-429)				
					223(Prepaid Data				
					223(Prepaid Data Special Tariff Vouchers-666)				
					223(Prepaid Data Special Tariff Vouchers-1699)				
			3G	Plan 1	6513(Postpaid Data Plans 99)	7837.70			7837.70
					6513(Postpaid Data Plans 225)				
					6513(Postpaid Data Plans 325)				
					6513(Postpaid Data				
					6513(Postpaid Data Plans 725)				

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

**Report for quarter ending: Sep 2020**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status					
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					6513(Postpaid Data Plans 799)				
					6513(Postpaid Data Plans 1125)				
					6513(Postpaid Data				
					6513(Prepaid Data Special Tariff Vouchers-7)				
					6513(Prepaid Data Special Tariff Vouchers-13)				
					6513(Prepaid Data Special Tariff Vouchers-09)				
					6513(Prepaid Data				
					6513(Prepaid Data Special Tariff Vouchers-29)				
					6513(Prepaid Data Special Tariff Vouchers-56)				
					6513(Prepaid Data Special Tariff Vouchers-58)				
					6513(Prepaid Data				
					6513(Prepaid Plan Vouchers-74)				
					6513(Prepaid Data Special Tariff Vouchers-78)				
					6513(Prepaid Plan				
					6513(Prepaid Data Special Tariff Vouchers-98)				
					6513(Prepaid Data Special Tariff Vouchers-108)				
					6513(Prepaid Data Special Tariff Vouchers-151)				
					6513(PrepaidPlan				
					6513(Prepaid Data Special Tariff Vouchers-186)				

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
						6513(Prepaid Data Special Tariff Vouchers-198)				
						6513(Prepaid Data Special Tariff Vouchers-319)				
						6513(Prepaid Data Special Tariff Vouchers-429)				
						6513(Prepaid Data Special Tariff Vouchers-458)				
						6513(Prepaid Data Special Tariff Vouchers-666)				
						6513(Prepaid Data Special Tariff Vouchers-1699)				
				4G	Plans	13387.00		22691.93		35158.63
6	Latency	Data <250	All Generations					45.40		
			2G (GSM)		161.00	228.22	149.06		149.06	
			3G			66.59	71.13		71.13	
			4G		80.00		41.00		41.00	
7	PDP Context Activation Success Rate	≥95%	All Generations					99.80		
			2G (GSM)		99.67	98.67	99.03		99.03	
			3G			98.10	97.07		97.07	
			4G		99.92		99.31		99.31	
8	Drop rate :	≤5%	All Generations					0.50		
			2G (GSM)		4.03		1.81		1.81	
			3G			0.40	0.82		0.82	
			4G		0.81		0.18		0.18	
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	100.00	99.69		98.57	99.69
			2G (GSM)							
2	Successful data transmission download attempts	>80%	All Generations			97.92			100.00	
			2G (GSM)		100.00		100.00			100.00
			3G				100.00			100.00
			4G		100.00		100.00			100.00
3	Successful data transmission upload attempts	>75%	All Generations			96.30			100.00	
			2G (GSM)		100.00		100.00			100.00
			3G				100.00			100.00
			4G		100.00		100.00			100.00
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
			2G	Plan 1	59.00		94.32			94.32
			3G	Plan 1		1813.51	2520.63			2520.63

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

**Report for quarter ending: Sep 2020**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
			4G	Plans								
Punjab	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	4G	Plans	2696.00		5467.09		4643.47	5467.09	
				CDMA	Plan 1							
				2G	Plan 1	170.00		137.37			137.37	
				3G	Plan 1		2867.58	6544.57			6544.57	
	6	Latency	Data <250	All Generations	4G	Plans	12389.00		18349.67		18106.99	18349.67
					2G (GSM)		222.00		129.64	180.83		180.83
					3G				82.42			82.42
					4G		79.00		31.00			31.00
	7	PDP Context Activation Success Rate	≥95%	All Generations				98.24			99.81	
					2G (GSM)		99.86		98.41			98.41
					3G				96.23			96.23
					4G		98.54		99.24			99.24
	8	Drop rate :	≤5%	All Generations				1.83			0.26	
2G (GSM)						0.68		3.81			3.81	
3G								0.38			0.38	
4G						0.08		0.24			0.24	
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	98.30	99.95		98.53	99.95	
				3G								
	2	Successful data transmission download attempts	>80%	All Generations			100.00			100.00		
				2G (GSM)		100.00		100.00			100.00	
				3G		100.00		100.00			100.00	
				4G		100.00		100.00			100.00	
	3	Successful data transmission upload attempts	>75%	All Generations			100.00			100.00		
				2G (GSM)		100.00		100.00			100.00	
				3G		100.00		100.00			100.00	
				4G		100.00		100.00			100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	107.00		117.24			117.24	
				3G	Plan 1	5537.00	4183.00	1521.74			1521.74	
				4G	Plans	19519.00	3730.00	13598.13		11804.54	13598.13	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
				2G	Plan 1	126.00		175.68			175.68	
3G				Plan 1	6855.00	5239.00	5854.21			5854.21		
4G				Plans	27906.00	5195.00	25327.43		29881.44	25327.43		
6	Latency	Data <250	All Generations						51.34			
			2G (GSM)		163.00		147.80			147.80		
			3G		80.00	162.00	105.42			105.42		
			4G		50.00		35.01			35.01		
7	PDP Context Activation Success Rate	≥95%	All Generations						99.90			
			2G (GSM)		99.89		99.41			99.41		
			3G		99.99	100.00	95.40			95.40		

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

**Report for quarter ending: Sep 2020**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status							
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
8	Drop rate :	≤5%	4G	98.65		99.97			99.97		
			All Generations				0.46				
			2G (GSM)	1.24		4.31		4.31			
			3G	0.84	0.14	2.54		2.54			
			4G	0.45		0.60		0.60			
Tamilnadu	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	100.00	86.52		98.81	99.81	
	2	Successful data transmission download attempts	>80%	All Generations					100.00		
				2G (GSM)	100.00	97.54	100.00		100.00		
				3G		98.19			100.00		
				4G	100.00	97.69	100.00		100.00		
	3	Successful data transmission upload attempts	>75%	All Generations					100.00		
				2G (GSM)	100.00	96.00	100.00		100.00		
				3G		98.45			100.00		
				4G	100.00	97.32	100.00		100.00		
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	170.00	48.19	94.70		102.12	
					3G	Plan 1		534.19		3838.61	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	219.00	107.64	178.35		168.17	
3G					Plan 1		1264.65	NA	7978.11		
			4G	Plans	19690.00	3742.81	13543.52	23659.73	20407.29		
6	Latency	Data <250	All Generations					52.84			
			2G (GSM)	242.00	330.70	93.67		98.08			
			3G		205.32	NA		24.33			
			4G	48.00	131.32	30.67		24.67			
7	PDP Context Activation Success Rate	≥95%	All Generations					99.61			
			2G (GSM)	100.00	99.69	97.87		99.72			
			3G		99.73	NA		98.49			
			4G	99.74	100.00	98.19		99.38			
8	Drop rate :	≤5%	All Generations					0.42			
			2G (GSM)	1.45	0.00	4.05		4.93			
			3G		0.00	NA		1.10			
			4G	0.10	0.00	0.21		0.14			
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	96.89	99.85		98.13	99.85	
	2	Successful data transmission download attempts	>80%	All Generations		82.33			100.00		
				2G (GSM)	100.00		100.00		100.00		
				3G	100.00		100.00		100.00		
				4G	100.00		100.00		100.00		
	3	Successful data transmission upload	>75%	All Generations		80.89			100.00		
				2G (GSM)	100.00		100.00		100.00		

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020										Compliance Status				
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone				
Uttar Pradesh (East)	attempts		3G		100.00		100.00			100.00				
			4G		100.00		100.00			100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									
				2G	Plan 1	88.00	104.33	62.70		62.70				
				3G	Plan 1	1158.00	2666.67	1345.00		1345.00				
				4G	Plans	3088.00		6464.33		6916.93	6464.33			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
				2G	Plan 1	256.00	174.67	90.69		90.69				
				3G	Plan 1	2522.00	3174.00	1718.37		1718.37				
				4G	Plans	5876.00		17635.12		26469.20	17635.12			
	6	Latency	Data <250	All Generations			150.33			53.67				
				2G (GSM)		230.00		99.92			99.92			
				3G		150.00		22.83			22.83			
				4G		97.00		22.83			22.83			
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.42			99.85				
				2G (GSM)		99.83		99.49			99.49			
3G				100.00		99.54			99.54					
4G				97.97		99.48			99.48					
8	Drop rate :	≤5%	All Generations			1.00			0.48					
			2G (GSM)		4.92		4.03			4.03				
			3G		1.00		1.33			1.33				
			4G		1.36		0.44			0.44				
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	97.40	99.87	98.17	99.87				
				2G (GSM)										
	2	Successful data transmission download attempts	>80%	All Generations		100.00	94.40			100.00				
				2G (GSM)				100.00			100.00			
				3G				100.00			100.00			
				4G		100.00		100.00			100.00			
	3	Successful data transmission upload attempts	>75%	All Generations			91.30			100.00				
				2G (GSM)		100.00		100.00			100.00			
				3G				100.00			100.00			
				4G		100.00		100.00			100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									
				2G	Plan 1	99.00	97.00	98.33			98.33			
				3G	Plan 1		1984.30	2347.67			2347.67			
				4G	Plans	7444.00		5229.00		5055.38	5229.00			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
				2G	Plan 1	149.00	163.00	160.67			160.67			
3G				Plan 1		2983.30	6372.33			6372.33				
4G				Plans	16348.00		10684.33		22054.32	10684.33				
6	Latency	Data <250	All Generations			239.00			58.75					
			2G (GSM)		123.00		133.00			133.00				
			3G				70.00			70.00				
			4G		70.00		48.33			48.33				
7	PDP Context Activation	≥95%	All Generations			97.50		99.88						



**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**

Report for quarter ending: Sep 2020				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
	Success Rate		2G (GSM)	99.88		99.05			99.05		
			3G			95.43			95.43		
			4G	97.87		99.30			99.30		
	8	Drop rate :	≤5%	All Generations		2.50			0.39		
				2G (GSM)	1.67		4.85			4.85	
				3G			2.96			2.96	
				4G	0.26		0.54			0.54	
West Bengal	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	96.01		100.00	98.52	100.00	
				3G							
	2	Successful data transmission download attempts	>80%	All Generations		100.00			100.00		
				2G (GSM)	100.00		98.92			98.92	
				3G	100.00		99.83			99.83	
	3	Successful data transmission upload attempts	>75%	All Generations		100.00			100.00		
				2G (GSM)	100.00		99.59			99.59	
				3G	100.00		100.00			100.00	
				4G	100.00		100.00			100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
				2G	Plan 1	48.00	10.77		96.91		96.91
				3G	Plan 1	1080.00	1028.69	3579.68			3579.68
				4G	Plans	4844.00		10981.26		5398.06	10981.26
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
				2G	Plan 1	106.00	154.75		159.35		159.35
				3G	Plan 1	1639.00	3457.75		7184.19		7184.19
				4G	Plans	7076.00		25061.89		28456.53	25061.89
	6	Latency	Data <250	All Generations		55.40			49.61		
				2G (GSM)	224.00		179.74			179.74	
				3G	104.00		35.00			35.00	
				4G	50.00		26.34			26.34	
	7	PDP Context Activation Success Rate	≥95%	All Generations		95.31			99.79		
				2G (GSM)	99.98		99.05			99.05	
				3G	100.00		96.53			96.53	
				4G	99.70		99.95			99.95	
	8	Drop rate :	≤5%	All Generations		4.69			0.55		
				2G (GSM)	1.22		4.59			4.59	
				3G	1.20		0.88			0.88	
4G				0.90		0.18			0.18		

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.