

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

Report for quarter ending: March 2018				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.00			99.99	98	100	100.00		
				2G		98.00							
				3G		98.00							
	2	Successful data transmission download attempts	>80%	All Generations						100	100		
				2G (GSM)	100.00	97.42	100.00						
				3G	100.00	96.32	100.00						
	3	Successful data transmission upload attempts	>75%	All Generations						100	100		
				2G (GSM)	100.00	95.72	100.00						
				3G	100.00	97.01	100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					71(Photon whiz)			
					Plan 2					2142(Photon plus)			
				2G	Plan 1	165.62	43.86(Data plan-96,1499,2799,3999)	135(Open plan)			132(EDGE)	90.4	133.13(Rs 125 plan with 1GB free )
				3G	Plan 1	1676.13	521.74(Data plan-96,1499,2799,3999)	2449(Open plan)					
				4G	Plans					4718.24		1140.4067	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					74(Photon whiz)			
					Plan 2					2178(Photon plus)			
				2G	Plan 1	199.74	136.56(Data plan-96,1499,2799,3999)	142(Open plan)			137(EDGE)	162.1	188.06(Rs 125 plan with 1GB free )
				3G	Plan 1	2334.37	2187.28(Data plan-96,1499,2799,3999)	3741(Open plan)					
	6	Latency	Data <250ms	All Generations						96	208		
				2G (GSM)	85.00	198.63	134.00						
				3G	42.00	149.00	27.00						
				4G					60.71				
	7	PDP Context Activation Success Rate	≥95%	All Generations						98	98.2		
				2G (GSM)	99.65	99.94	99.70						
				3G	99.99	99.98	97.10						
				4G					99.81				
	8	Drop rate :	≤5%	All Generations						0.8	0.42		
				2G (GSM)	2.63	1.81	0.89						
3G				0.61	1.81	0.17							
4G								0.40					

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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Assam	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	97.00			99.85		98.77		99.96		
				2G		100.00								
				3G		100.00								
	2	Successful data transmission download attempts	>80%	All Generations										
				2G (GSM)	100.00	98.30	100.00				100.00			
				3G	100.00	98.30					100.00			
	3	Successful data transmission upload attempts	>75%	All Generations										
				2G (GSM)	100.00	97.30	100.00				100.00			
				3G	100.00	97.30					100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									
					Plan 2									
					Plan 3									
				2G	Plan 1	110.85	78 (All plans)	75(Open plan)					125.33(pack @699)	
				3G	Plan 1	2278.17	1247(All plan)							2995.37
					Plan 2									
				4G	Plans						3432.29			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
				2G	Plan 1	167.11	135 (All plans)	147(Open plan)					145.56(pack @699)	
				3G	Plan 1	3601.39	2897(All plan)							3266.20
					Plan 2									
				4G	Plans						15789.34			
	6	Latency	Data <250ms	All Generations										
				2G (GSM)	234.00	170.10	99.00						183.67	
				3G	36.80	164.30							64.67	
				CDMA										
				4G						51.91				
	7	PDP Context Activation Success Rate	≥95%	All Generations										
				2G (GSM)	99.99	98.00	99.79					99.79		
				3G	99.90	97.60						96.88		
				CDMA										
	8	Drop rate :	≤5%	All Generations										
				2G (GSM)	3.25		0.16					2.73		
3G				0.91	1.30						0.73			
4G									0.34					

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	96.00			99.82		99.97	100	100	99.99
				2G		100.00							
				3G		100.00							
	2	Successful data transmission download attempts	>80%	All Generations						100	100		
				2G (GSM)	98.05	100.00	100.00					100.00	
				3G	99.87	100.00	100.00						
	3	Successful data transmission upload attempts	>75%	All Generations						100	100		
				2G (GSM)	98.96	100.00	100.00					100.00	
				3G	97.27	100.00	100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						42(Photon whiz)		
					Plan 2						1234(Photon plus)		
					Plan 3								
				2G	Plan 1	57.64	55.9(2G Postpaid)	92(Open plan)			103(EDGE)	118.7	140(VMC+VFL_3G B+30d_2G_2G RC 199 Y_2G)
					Plan 2		51.9(Prepaid 2G data)						
				3G	Plan 1	1854.17	702.3(3G Postpaid data plans)	1795(Open plan)					
					Plan 2		489.3(3G Prepaid data plan)						
					Plan 3								
				4G	Plans					4597.73		1424.2767	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						61(Photon whiz)		
					Plan 2						1741(Photon plus)		
Plan 3													
2G				Plan 1	149.72	104.6(2G Postpaid)	189(Open plan)			122(EDGE)	174.3	173(VMC+VFL_3G B+30d_2G_2G RC 199 Y_2G)	
				Plan 2		104.6(Prepaid 2G data)							
3G				Plan 1	4365.14	1717.4(3G Postpaid data plans)	3113(Open plan)						
				Plan 2		1717.4(3G Prepaid data plan)							
				Plan 3									
4G				Plans					22189.56		2604.2067		
6	Latency	Data <250ms	All Generations						107.45	206.1			
			2G (GSM)	235.00	221.60	236.00					122.00		

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			3G	135.00	119.20	117.00						
			4G					60.04				
	7	PDP Context Activation Success Rate	≥95%	All Generations						98.75	99.2	
				2G (GSM)	99.87	97.90	97.75					99.65
				3G	98.64	96.90	92.99					
				4G					99.58			
	8	Drop rate :	≤5%	All Generations						0.53	0.52	
				2G (GSM)	3.61		2.19					1.16
				3G	0.15	0.90	0.22					
				4G					0.43			

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00						
	2	Successful data transmission download attempts	>80%	All Generations								
				2G (GSM)		95.93						
				3G		97.75						
				CDMA								
	3	Successful data transmission upload attempts	>75%	All Generations								
				2G (GSM)		97.53						
				3G		97.95						
				CDMA								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							
					Plan 2							
					Plan 3							
				2G	Plan 1		72.00					
					Plan 2							
				3G	Plan 1		577.00					
					Plan 2							
					Plan 3							
	4G	Plans										
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
					Plan 3							
				2G	Plan 1		142.00					
					Plan 2							
				3G	Plan 1		2907.00					
					Plan 2							
					Plan 3							
	4G	Plans										
	6	Latency	Data <250ms	All Generations								
				2G (GSM)		249.00						
				3G		93.00						
				CDMA								
				4G								
7	PDP Context Activation Success Rate	≥95%	All Generations									
			2G (GSM)		97.46							
			3G		98.79							
			CDMA									
			4G									
8	Drop rate :	≤5%	All Generations									
			2G (GSM)		1.71							
			3G		1.79							
			CDMA									
			4G									

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Delhi	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00		99.22	99.36	99.99	98	99.71		
				3G									
	2	Successful data transmission download attempts	>80%	All Generations						100			
				2G (GSM)	99.73		100.00	94.89			99.18		
				3G	100.00		100.00	98.79			98.93		
				CDMA									
				4G					100.00				
	3	Successful data transmission upload attempts	>75%	All Generations						100			
				2G (GSM)	99.72		100.00	89.94			99.34		
				3G	100.00		100.00	97.62			99.15		
				CDMA									
				4G					100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						72(Photon whiz)		
					Plan 2						1584(Photon plus)		
					Plan 3						2038(Photon max)		
				2G	Plan 1	24.00		60(Open plan)	90.70				79.45(Rs 125 Rental plan with 1GB free)
					Plan 2								
				3G	Plan 1	1874.00		1074(Open plan)	696.87				1034(Rs 250 Rental plan with 1GB free)
					Plan 2								
					Plan 3								
				4G	Plans						5970.69		
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
	Plan 2										2031(Photon plus)		
	Plan 3										2786(Photon max)		
2G	Plan 1	85.24					154(Open plan)	98.42				178.14(Rs 125 Rental plan with 1GB free)	
	Plan 2												
3G	Plan 1	2954.00					5161(Open plan)	920.39				2439.79(Rs 250 Rental plan with 1GB free)	
	Plan 2												
	Plan 3												
4G	Plans									27706.33			
6	Latency	Data <250ms	All Generations				138.33		77.5				
			2G (GSM)	227.00		132.00				205.33			
			3G	87.00		56.00				71.67			

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7	PDP Context Activation Success Rate	≥95%	CDMA									
			4G				44.16					
			All Generations			99.33		96.4665				
			2G (GSM)	99.96		99.66				99.32		
			3G	100.00		99.03				99.14		
	Drop rate :	≤5%	CDMA									
			4G				99.76					
			All Generations			2.90		0.6795				
			2G (GSM)	2.08		0.17				1.82		
			3G	0.53		0.67				1.47		
			4G				0.34					

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Gujarat	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	98.00		100.00	100	100	99.97		
				2G (GSM)									
	2	Successful data transmission download attempts	>80%	All Generations		99.00				100	100		
				2G (GSM)	100.00			100.00			99.65		
				3G	100.00			100.00			100.00		
				CDMA									
				4G				100.00					
	3	Successful data transmission upload attempts	>75%	All Generations		98.00				100	100		
				2G (GSM)	100.00			100.00			99.18		
				3G	100.00			100.00			99.98		
				CDMA									
				4G				100.00					
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					74(Photon whiz)			
					Plan 2					1280(Photon plus)			
					Plan 3								
				2G	Plan 1	78.61			91(Open plan)		86(EDGE)	126.5	84.29(2G MI199)
					Plan 2								
				3G	Plan 1	785.54	1416 Kbps	2026(Open plan)					2101.17(3G MI850)
					Plan 2						2239(Photon 3G)		
					Plan 3						3473(Photon 3G+)		
				4G	Plans					5895.72		2828.1371	
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					87(Photon whiz)
	Plan 2									1982(Photon plus)			
	Plan 3												
	2G	Plan 1	159.00				1899 Kbps	172(Open plan)			137(EDGE)	175.3	138.12(2G MI199)
		Plan 2											
	3G	Plan 1	3540.51					4773(Open plan)					4149.67(3G MI850)
		Plan 2									3407(Photon 3G)		
Plan 3						5273(Photon 3G+)							
4G	Plans					29320.10		3318.2496					
6	Latency	Data <250ms	All Generations		94 ms				67.6	128.7			
			2G (GSM)	239.00			100.00				133.67		
			3G	156.00			48.00				51.00		
			CDMA										
			4G					55.72					

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7	PDP Context Activation Success Rate	≥95%	All Generations		98.10				99.2	99.4		
			2G (GSM)	99.99							99.71	
			3G	99.37							99.39	
			CDMA									
8	Drop rate :	≤5%	All Generations		1.10				99.83			
			2G (GSM)	4.78		0.35					4.97	
			3G	0.26		0.77					0.53	
			CDMA									
			4G					0.48				

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00	100.00	99.04		99.99	100		100.00	
				2G (GSM)									
				3G									
				CDMA									
	2	Successful data transmission download attempts	>80%	All Generations		91.00				100			
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		100.00						
				4G					100.00				
	3	Successful data transmission upload attempts	>75%	All Generations		90.00				100			
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		100.00						
				4G					100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						59(Photon whiz)		
					Plan 2						718(Photon plus)		
				2G	Plan 1	118.00	73.00	157(Open plan)			57(EDGE)		145.34(Talk invitation 5)
					Plan 2								
				3G	Plan 1	1320.96	856.00	1594(Open plan)					
					Plan 2								
					Plan 3								
	4G	Plans					4648.79						
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						73(Photon whiz)		
					Plan 2						1306(Photon plus)		
				2G	Plan 1	178.00	101.00	172(Open plan)			94(EDGE)		170.46(Talk invitation 5)
					Plan 2								
				3G	Plan 1	4249.60	1430.00	2905(Open plan)					
					Plan 2								
					Plan 3								
	4G	Plans					23569.69						
	6	Latency	Data <250ms	All Generations		84.00				124.42			
				2G (GSM)	226.00		222.00					194.17	
				3G	163.00		168.00						
				4G					46.79				
7	PDP Context Activation Success Rate	≥95%	All Generations		98.90				96.44				
			2G (GSM)	99.88		100.00					99.90		
			3G	100.00		100.00							
			4G					99.88					
8	Drop rate :	≤5%	All Generations		0.90				0.72				
			2G (GSM)	1.61		2.23					1.98		
			3G	0.76		0.98							

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			4G					0.31				

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Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	97.00	99.76		100.00	100		99.95	
				2G (GSM)									
	2	Successful data transmission download attempts	>80%	All Generations		87.00				100			
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		100.00					100.00	
				4G					100.00				
	3	Successful data transmission upload attempts	>75%	All Generations		85.33				100			
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		99.99					100.00	
				4G					100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					31.44(Photon whiz)			
					Plan 2					1092.20(Photon plus)			
				2G	Plan 1	170.00	78.67	151(Open plan)		59.96(EDGE)		140.49(PLAN-198 Rs/2GB)	
				3G	Plan 1	1495.04	932.33	1842(Open plan)		803.02(Photon 3G)		4551.65(PLAN-198 Rs/2GB)	
					Plan 2					1167.85(Photon 3G)			
					Plan 3					1285.35(Photon 3G+)			
				4G	Plans				14166.00				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					71.02(Photon whiz)			
					Plan 2					1341.37(Photon plus)			
					Plan 3								
				2G	Plan 1	179.00	111.67	179(Open plan)		105.38(EDGE)		190.82(PLAN-198 Rs/2GB)	
				3G	Plan 1	3276.80	1625.33	3472(Open plan)		2659.98(Photon 3G)		8758.31(PLAN-198 Rs/2GB)	
					Plan 2					3456.35(Photon 3G)			
				Plan 3					4206.17(Photon 3G+)				
			4G	Plans				36496.00					
6	Latency	Data <250ms	All Generations		113.67				69.4				
			2G (GSM)	212.00		127.00					88.80		
			3G	81.00		26.00					18.35		
			4G					49.89					
7	PDP Context Activation Success Rate	≥95%	All Generations		95.80				99.2				
			2G (GSM)	99.87		98.74					92.15		

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8	Drop rate :	≤5%	3G	100.00		98.25					79.08	
			4G				99.79					
			All Generations		4.11				1.3			
			2G (GSM)	0.79		1.55					5.03	
			3G	0.29		1.92					1.07	
			4G					0.43				

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Jammu and Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	96.40	99.36		99.84		99.99	
				3G									
	2	Successful data transmission download attempts	>80%	All Generations			94.00						
					2G (GSM)	100.00		100.00					100.00
					3G	100.00		100.00					
				4G						100.00			
	3	Successful data transmission upload attempts	>75%	All Generations			88.00						
					2G (GSM)	100.00		100.00					100.00
					3G	100.00		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	186.73	12.00	113(Open plan)				136.41(99_1GB)
					3G	Plan 1	3174.40	359.00	2075(Open plan)				
					4G	Plans					4546.09		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					2G	Plan 1	222.49	29.00	140(Open plan)				159.32(99_1GB)
					3G	Plan 1	4915.20	419.00	4440(Open plan)				
					4G	Plans					20308.46		
	6	Latency	Data <250ms	All Generations			114.00						
					2G (GSM)	192.00		202.00					132.66
					3G	93.00		173.00					
					4G					47.41			
	7	PDP Context Activation Success Rate	≥95%	All Generations			96.00						
					2G (GSM)	100.00		100.00					99.85
					3G	99.00		100.00					
					4G					99.83			
	8	Drop rate :	≤5%	All Generations			1.20						
					2G (GSM)	2.75		1.09					1.70
				3G	0.63		1.18						
				4G					0.36				

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status										
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone			
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	95.00			99.54		99.77	99		99.99	
				3G										
	2	Successful data transmission download attempts	>80%	All Generations		96.33					100			
				2G (GSM)	100.00			100.00					99.85	
				3G	100.00			100.00					100.00	
				CDMA										
				4G					100.00					
	3	Successful data transmission upload attempts	>75%	All Generations		94.66						100		
				2G (GSM)	100.00			100.00					99.91	
				3G	100.00			100.00					99.83	
				CDMA										
				4G					100.00					
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA								53(Photon whiz)		
												980(Photon plus)		
				2G										
					171.20	43.00	135(Open plan)					59(EDGE)		163.96(Postpaid PayG unlimited)
				3G										
					6142.16	645.00	2731(Open Plan)							3150.34(Postpaid PayG unlimited)
				4G						8274.18				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA								75(Photon whiz)		
												1304(Photon plus)		
				2G										
					209.30	78.30	165(Open Plan)					151(EDGE)		204.16(Postpaid PayG unlimited)
			3G											
				6581.10	1776.00	3995(Open plan)							7242.31(Postpaid PayG unlimited)	
			4G						30437.30					
6	Latency	Data <250ms	All Generations		111.66						104.94			
			2G (GSM)	125.00				125.00					136.33	
			3G	62.00				63.00					54.00	
			CDMA											
			4G						47.27					
7	PDP Context Activation Success Rate	≥95%	All Generations								98.79			
			2G (GSM)	99.93	99.89	99.99							99.77	
			3G	99.87	99.94	99.22							96.81	
			CDMA											
			4G						99.83					

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
8	Drop rate :	≤5%	All Generations						1.65			
			2G (GSM)	2.55			1.39					3.84
			GSM (OSS)									
			3G	0.12			1.53					0.66
			3G (OSS)									
			CDMA									
			4G					0.31				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.



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

Report for quarter ending: March 2018				Compliance Status										
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone			
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00			99.77		99.99	100		99.99	
				2G (GSM)										
	2	Successful data transmission download attempts	>80%	All Generations		95.90				100				
				2G (GSM)	100.00			100.00					100.00	
				3G	100.00			100.00					100.00	
				CDMA										
	3	Successful data transmission upload attempts	>75%	All Generations		95.23				100				
				2G (GSM)	100.00			100.00					100.00	
				3G	100.00			100.00					100.00	
				CDMA										
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							58(Photon whiz)		
					Plan 2							1515(Photon plus)		
					Plan 3							1538(Photon max)		
				2G	Plan 1	90.50	38.47	117(Open plan)				64(EDGE)		106.96(3GB VMC 199 plan)
					Plan 2									
				3G	Plan 1	1801.39	485.33	1514(Open plan)						1778.83
					Plan 2							1226(Photon 3G)		
					Plan 3							2317(Photon 3G+)		
				4G	Plans						5466.40			
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
	Plan 2											1655(Photon plus)		
	Plan 3											1828(Photon max)		
	2G	Plan 1	147.00				75.18	117(Open plan)				117(EDGE)		152.08(3GB VMC 199 plan)
		Plan 2												
3G	Plan 1	3832.13	1177.36				1833(Open plan)						3311.19	
	Plan 2										3649(Photon 3G)			
	Plan 3										4954(Photon 3G+)			
4G	Plans						21497.50							
6	Latency	Data <250ms	All Generations		140.09						59.5			
			2G (GSM)	220.00			120.00					65.33		
			3G	99.00			39.00					33.00		

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
7	PDP Context Activation Success Rate	≥95%	CDMA									
			4G				49.78					
			All Generations		97.08			98.7				
			2G (GSM)	100.00			99.73			99.23		
			3G	98.15			98.40			88.33		
	Drop rate :	≤5%	CDMA									
			4G				99.88					
			All Generations		0.81			1.6				
			2G (GSM)	1.10			1.71			3.29		
			3G	0.16			1.17			1.27		
			4G				0.44					

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status											
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone				
Karnataka	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	100.00		94.94		99.98	96		99.98		
				2G (GSM)											
	2	Successful data transmission download attempts	>80%	All Generations								100			
				2G (GSM)	100.00	99.63	100.00					100.00			
				3G	100.00	99.69						100.00			
				CDMA											
	3	Successful data transmission upload attempts	>75%	All Generations								100			
				2G (GSM)	100.00	100.00	100.00						100.00		
				3G	100.00	100.00							100.00		
				CDMA											
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							45.13(Photon whiz)			
					Plan 2							1055.73(Photon plus)			
					Plan 3							1280.12(Photon max)			
				2G	Plan 1	109.92	37.19	168(Open plan)				65(EDGE)		96.59(2 GB unlimited @MRP199)	
					Plan 2							1536(Photon 3G)			
				3G	Plan 1	1691.49	1506.83								7313.75
					Plan 2										
					Plan 3										
				4G	Plans						3913.24				
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							69.50(Photon whiz)
	Plan 2											1668.67(Photon plus)			
	Plan 3											2170.50(Photon max)			
	2G	Plan 1	178.04				105.01	167(Open plan)				124.25(EDGE)		109.34(2 GB unlimited @MRP199)	
Plan 2											2588(Photon 3G)				
3G	Plan 1	3645.86	3743.69											10306.79	
	Plan 2														
	Plan 3														
4G	Plans						21971.45								
6	Latency	Data <250ms	All Generations		119.83						70.2				
			2G (GSM)	113.00		138.00							149.75		

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone			
7	PDP Context Activation Success Rate	≥95%	3G	77.90							40.58			
			CDMA											
			4G					59.86						
			All Generations		42.37					98.6				
			2G (GSM)	99.58			99.52					99.63		
			3G	99.83								87.64		
			CDMA											
			4G						99.83					
			8	Drop rate :	≤5%	All Generations		0.51					0.4	
						2G (GSM)	2.63			0.33				2.11
3G	0.78											0.33		
CDMA														
4G									0.52					

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	99.00	98.69		99.97	99	100	99.98	
				2G (GSM)									
	2	Successful data transmission download attempts	>80%	All Generations		93.00				100	100		
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		100.00					100.00	
				4G				100.00					
	3	Successful data transmission upload attempts	>75%	All Generations		90.00				100	100		
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		100.00					100.00	
				4G				100.00					
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						69.43(Photon whiz)		
					Plan 2						792.4(Photon plus)		
				2G	Plan 1	82.21	97.00	95(Open plan)			59.7(EDGE)	124.6	133.12(Rs. 599 unlimited 2G data plan)
					Plan 2								
				3G	Plan 1	1821.11	3000.00	3119(Open plan)					2532.06(Unlimited 2G & 3G data plan)
					Plan 2						5108.02(Photon 3G)		
				Plan 3						2391.68(Photon 3G+)			
				4G	Plans					4908.53		854.14667	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						79.66(Photon whiz)		
					Plan 2						1390.31(Photon plus)		
Plan 3													
2G				Plan 1	153.04	113.00	174(Open Plan)			121.4622(EDGE)	197.4	215.81(Rs. 599 unlimited 2G data plan)	
				Plan 2			5026(Open Plan)						
				Plan 3									
3G				Plan 1	2877.68	2850.00						6951.20(Unlimited 2G & 3G data plan)	
				Plan 2						7728.59(Photon 3G)			
				Plan 3						4466.29(Photon 3G+)			

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
6	Latency	Data <250ms	4G	Plans					23765.51		1262.1		
			All Generations			123.00				66.7	224.4		
			2G (GSM)		230.00		150.00					120.90	
			3G		54.40		96.00					37.10	
	7	PDP Context Activation Success Rate	≥95%	4G						70.15			
				All Generations			96.45				99.4	99.4	
				2G (GSM)		100.00		99.82					99.85
				3G		100.00		99.99					99.40
	8	Drop rate :	≤5%	4G						99.77			
				All Generations			2.43				1.5	0.68	
				2G (GSM)		0.00		1.95					0.71
				3G		0.00		1.07					0.27
			4G					0.47					

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Madhya Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.00			96.97		99.97	100	100.00
				2G				98.20				
				3G				98.20				
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	99.24	100.00	100.00					100.00
				3G	98.88	100.00	100.00					
				4G					100.00			
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	99.11	100.00	100.00					100.00
				3G	98.75	100.00	100.00					
				4G					100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA						48(Photon whiz)		
										482(Photon plus)		
				2G	102.55		68(Open plan)			71(EDGE)		82.82(MBB_C_V_199_30d_D2GB_FU_2G)
				3G	2210.70	1498(3G Postpaid data plans-FMC-50)	1189(Open Plan)					
						1257(3G Postpaid data plans-FMC-225)				1275(Photon 3G)		
						1479(3G Postpaid data plans-FMC-501)				2955(Photon 3G+)		
						1863(3G Postpaid data plans-FMC-666)						
						2063(3G Postpaid data plans-FMC-901)						
						1369(3G Prepaid data Recharge Vouchers-56)						
					1150(3G Prepaid data Recharge Vouchers-78)							
					1520(3G Prepaid data Recharge Vouchers-333)							
					1620(3G Prepaid data Recharge Vouchers-155)							

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone
						2010(3G Prepaid data Recharge Vouchers-197)						
						1358(3G Prepaid data Recharge Vouchers-369)						
						1267(3G Prepaid data Recharge Vouchers-444)						
						1335(3G Prepaid data Recharge Vouchers-561)						
			4G	Plans						4076.34		

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.



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

Report for quarter ending: March 2018					Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Madhya Pradesh	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					79(Photon whiz)			
					Plan 2					1179(Photon plus)			
				2G	Plan 1	180.52		134(Open plan)			105(EDGE)		186.95(MBB_C_V_199_30d_D2GB_FU_2G)
					3G	Plan 1	3043.87	2369(3G Postpaid data plans-FMC-75)	3234(Open plan)				
				Plan 2			2546(3G Postpaid data plans-FMC-225)				2521(Photon 3G)		
				Plan 3			1948(3G Postpaid data plans-FMC-501)				5784(Photon 3G+)		
							2469(3G Postpaid data plans-FMC-666)						
							2200(3G Postpaid data plans-FMC-901)						
							2036(3G Prepaid data Recharge Vouchers-56)						
							2146(3G Prepaid data Recharge Vouchers-78)						
							2032(3G Prepaid data Recharge Vouchers-333)						
							1958(3G Prepaid data Recharge Vouchers-155)						
							2185(3G Prepaid data Recharge Vouchers-197)						
							1958(3G Prepaid data Recharge Vouchers-369)						
							2046(3G Prepaid data Recharge Vouchers-444)						

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
6	Latency	Data <250ms				2246(3G Prepaid data Recharge Vouchers-561)								
			4G	Plans					21680.08					
			All Generations								82			
			2G (GSM)		112.00	224.60	113.00						137.22	
			3G		30.00	111.90	93.00							
			4G							66.70				
			All Generations									99.2		
			2G (GSM)		99.99	96.70	99.94							99.72
			3G		99.93	98.90	97.91							
			4G								99.79			
			All Generations										2	
			2G (GSM)		3.90		0.54							2.42
			3G		0.03	1.10	1.02							
			4G								0.37			

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Mumbai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		98.00		98.72	99.00	99.99		99.99		
				3G										
	2	Successful data transmission download attempts	>80%	All Generations										
				2G (GSM)		100.00		100.00	99.89				100.00	
				3G		100.00			100.00				100.00	
				4G						100.00				
	3	Successful data transmission upload attempts	>75%	All Generations										
				2G (GSM)		100.00		100.00	99.97				100.00	
				3G		100.00			99.50				100.00	
				4G						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	170.60		76(Open plan)	55.06					121.37(VMC699U L)
					3G	Plan 1	3160.70			625.27				3573.74(MI 8GB)
				4G	Plans						5626.06			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
					Plan 2									
				2G	Plan 1	188.90		172(Open plan)	78.77					163.95(VMC699U L)
					3G	Plan 1	3559.40			965.88				7395.76(MI 8GB)
				4G	Plans					27194.13				
	6	Latency	Data <250ms	All Generations										
				2G (GSM)		94.00		85.00					97.13	
				3G		25.00			185.83				15.30	
				4G						49.50				
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.91					
				2G (GSM)		99.99		98.93					99.61	
				3G		99.96							99.73	
4G								99.85						
8	Drop rate :	≤5%	All Generations					1.83						
			2G (GSM)		4.21		0.27					4.16		
			3G		0.09							0.76		
			4G						0.33					

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
North East-I	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		97.00		99.79		99.38		99.98	
				2G			100.00						
				3G			100.00						
	2	Successful data transmission download attempts	>80%	All Generations									
				2G (GSM)		100.00	100.00	100.00				100.00	
				3G		100.00	100.00					100.00	
				4G					100.00				
	3	Successful data transmission upload attempts	>75%	All Generations									
				2G (GSM)		100.00	100.00	100.00				100.00	
				3G		100.00	100.00					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	105.68	78.88	77(Open plan)				128.53(Pack @699)	
				3G	Plan 1	2889.74	1972.27						
					Plan 2								
					Plan 3								
				4G	Plans				5809.56				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
				2G	Plan 1	178.20	84.39	132(Open plan)				141.61(Pack @699)	
				3G	Plan 1	3647.60	1972.27					3304.92	
					Plan 2								
					Plan 3								
	4G	Plans				27058.50							
	6	Latency	Data <250ms	All Generations									
				2G (GSM)		232.00	242.00	105.00				179.33	
				3G		36.90	220.00					63.33	
				4G					61.35				
	7	PDP Context Activation Success Rate	≥95%	All Generations									
2G (GSM)				99.99	153.42	99.57				99.88			
3G				99.90	141.91					97.21			
4G							99.83						
8	Drop rate :	≤5%	All Generations										
			2G (GSM)		2.86		0.18				4.02		
			3G		1.55	0.48					1.34		
			4G					0.46					

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
North East-II	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00						
				3G								
	2	Successful data transmission download attempts	>80%	All Generations		98.00						
				2G (GSM)								
				3G								
				4G								
	3	Successful data transmission upload attempts	>75%	All Generations		98.00						
				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		379 Kbps					
					Plan 2							
					Plan 3							
	4G	Plans										
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
				2G	Plan 1							
				3G	Plan 1		976 Kbps					
					Plan 2							
					Plan 3							
	4G	Plans										
	6	Latency	Data <250ms	All Generations		114 ms						
				2G (GSM)								
3G												
4G												
7	PDP Context Activation Success Rate	≥95%	All Generations		98.15							
			2G (GSM)									
			3G									
			4G									
8	Drop rate :	≤5%	All Generations		0.64							
			2G (GSM)									
			3G									
			4G									

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status										
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone				
Orissa	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	97.00			97.07		99.97	99		99.53		
				2G			100.00								
				3G			100.00								
	2	Successful data transmission download attempts	>80%	All Generations								100			
				2G (GSM)	100.00		100.00	100.00					100.00		
				3G	100.00		100.00						100.00		
	3	Successful data transmission upload attempts	>75%	All Generations								100			
				2G (GSM)	100.00		100.00	100.00					100.00		
				3G	100.00		100.00						100.00		
				4G					100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							69(Photon whiz)			
					Plan 2							1707(Photon plus)			
				2G	Plan 1	94.39		88.00	64(Open plan)				125(EDGE)		184.42(Plan-99_1GB)
					3G	Plan 1	1877.02		1387.00						
				Plan 2											
				Plan 3											
				4G	Plans						5784.65				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							72(Photon whiz)			
					Plan 2							1812(Photon plus)			
				2G	Plan 1	166.05		160.00					134(EDGE)		199.33(Plan-99_1GB)
					3G	Plan 1	3400.12		5360.00	154(Open plan)					
				Plan 2											
				Plan 3											
				4G	Plans						31332.33				
	6	Latency	Data <250ms	All Generations								114.38			
				2G (GSM)	164.00		302.20	74.00					110.67		
				3G	58.10		85.90						55.67		
				4G						52.20					
	7	PDP Context Activation Success Rate	≥95%	All Generations								98.79			
				2G (GSM)	99.55		98.60	99.68					99.64		
				3G	99.81		98.70						98.50		
				4G						99.76					
8	Drop rate :	≤5%	All Generations								0.95				
			2G (GSM)	3.76			1.70					2.35			
			3G	0.17		1.30						0.66			
			4G						0.39						

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Punjab	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	100.00	98.59		100.00	100		99.69	
				2G (GSM)									
	2	Successful data transmission download attempts	>80%	All Generations		97.00				100			
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		100.00						
				4G				100.00					
	3	Successful data transmission upload attempts	>75%	All Generations		96.11				100			
				2G (GSM)	100.00		100.00					100.00	
				3G	100.00		100.00						
				4G				100.00					
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						24.34(Photon whiz)		
					Plan 2						1016.71(Photon plus)		
					Plan 3						2384(Photon max)		
				2G	Plan 1	98.13		114(Open plan)			68.61(EDGE)		159.95(unlimited @ 199)
					Plan 2								
				3G	Plan 1	1126.40	1136.13	2945(Open plan)			1185.13(Photon 3G)		
					Plan 2						1313.75(Photon 3G)		
					Plan 3						7388.67(Photon3 G+)		
				4G	Plans					4641.98			
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
	Plan 2										1766.45(Photon plus)		
	Plan 3										3062.42(Photon max)		
	2G	Plan 1	185.77					140(Open plan)			107.25(EDGE)		189.40(unlimited @ 199)
		Plan 2											
3G	Plan 1	1843.20	1545.12				4143(Open plan)			2162.83(Photon 3G)			
	Plan 2									2233.41(Photon 3G)			
	Plan 3									8513.08(Photon 3G+)			
4G	Plans					25873.78							
6	Latency	Data <250ms	All Generations						67.7				
			2G (GSM)	208.00		227.00					90.89		
			3G	101.00	146.49	56.00							

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
7	PDP Context Activation Success Rate	≥95%	4G					46.29				
			All Generations		97.46			99.2				
			2G (GSM)	99.94		100.00				99.90		
			3G	100.00		100.00						
8	Drop rate :	≤5%	4G					99.87				
			All Generations		1.14			1.9				
			2G (GSM)	0.30		2.21				3.02		
			3G	0.19		0.32						
			4G					0.21				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.



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

Report for quarter ending: March 2018					Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.00	95.00		99.99	100		100.00		
				3G									
	2	Successful data transmission download attempts	>80%	All Generations		99.00							
				2G (GSM)	100.00						100.00		
				3G	100.00						100.00		
				CDMA									
	3	Successful data transmission upload attempts	>75%	All Generations		98.00							
				2G (GSM)	100.00						100.00		
				3G	100.00						100.00		
				CDMA									
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							79(Photon whiz)	
					Plan 2							823(Photon plus)	
				2G	Plan 1	142.46			148(Open plan)				122.09(unlimited GB(VL+VMC)@599 )
						3G	Plan 1	2520.87	236.16(Postpaid data plan 50)	3136(Open plan)			
								221.44(Postpaid data plan 75)					
							245.10(Postpaid data plan 170)						
							236.32(Postpaid data plan 225)						
							243.42(Postpaid data plan 501)						
							227.68(Postpaid data plan 666)						
							234.66(Postpaid data plan 901)						
						239.06(Postpaid data plan 1711)							
						232.46(Postpaid data plan 240)							
						248.75(Prepaid data STV 4)							
						245.77(Prepaid data STV 14)							

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone
						244.27(Prepaid data STV 31)						
						265.02(Prepaid data STV 39)						
						245.36(Prepaid data STV 56)						
						265.34(Prepaid data STV 78)						
						244.45(Prepaid data STV 98)						

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Rajasthan						236.07(Prepaid data STV 155)							
						256.94(Prepaid data STV 198)							
						254.77(Prepaid data STV 444)							
						238.61( Prepaid data 561)							
						254.52(Prepaid data 821)							
						241.82(Prepaid data 1949)							
						244.51(Prepaid data 3099)							
						243.21(Prepaid data 549)							
				4G	Plans					4937.90			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						81(Photon whiz)		
					Plan 2						1337(Photon plus)		
				2G	Plan 1	158.24		189(Open plan)					182.93(unlimited GB(VL+VMC)@599 )
				3G	Plan 1	2920.16	243.55	5144(Open plan)					8156.72
				4G	Plans					30892.07			
	6	Latency	Data <250ms	All Generations			94 ms				100.1		
				2G (GSM)		162.00		110.00					116.00
				3G		70.80		55.00					107.75
				CDMA									
				4G						66.49			
7	PDP Context Activation Success Rate	≥95%	All Generations			100.00				98.2			
			2G (GSM)		99.97		98.78					99.49	
			3G		100.00		98.96					97.25	
			CDMA										
			4G						99.87				
8	Drop rate :	≤5%	All Generations			0.15				1.54			
			2G (GSM)		2.06		0.12					4.26	
			3G		0.42		0.21					0.66	
			CDMA										
			4G						0.34				

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Tamilnadu	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	100.00	98.22		99.94	100	100.00	
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	100.00	96.59	100.00				100.00	
				3G	100.00	97.12					100.00	
				CDMA								
				4G					100.00			
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	100.00	95.50	100.00				100.00	
				3G	100.00	95.76					100.00	
				CDMA								
				4G					100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						53(Photon whiz)	
					Plan 2						782(Photon plus)	
				2G	Plan 1	181.00	49.45	86(Open plan)			73(EDGE)	116.83(199 unlimited 2GB)
					3G	5268.00	848.38					3085.48(650 unlimited 3GB)
				4G	Plans					3861.60		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						87(Photon whiz)	
					Plan 2						1234(Photon plus)	
				2G	Plan 1	192.68	94.71	147(Open plan)			114(EDGE)	170.17(199 unlimited 2GB)
					3G	7568.67	1785.27					7233.28(650 unlimited 3GB)
				4G	Plans					21703.03		
	6	Latency	Data <250ms	All Generations						102.22		
				2G (GSM)	191.00	453.84	110.00				113.00	
				3G	48.90	121.84					33.67	
				CDMA								
				4G					60.70			
	7	PDP Context Activation Success Rate	≥95%	All Generations						96.58		
				2G (GSM)	100.00	99.04	99.79				99.62	
				3G	100.00	99.24					98.94	
				CDMA								
				4G					99.86			
	8	Drop rate :	≤5%	All Generations						1.15		
2G (GSM)				0.29	0.07	1.50				3.35		
3G				0.29	0.14					0.74		
CDMA												
4G								0.34				

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Uttar Pradesh (East)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.10	96.63		100.00	99	100	100.00	
				2G (GSM)									
	2	Successful data transmission download attempts	>80%	All Generations		85.00				100	100		
				2G (GSM)	100.00		100.00					99.64	
				3G	100.00		100.00					99.71	
				4G					100.00				
	3	Successful data transmission upload attempts	>75%	All Generations		82.70				100	100		
				2G (GSM)	100.00		100.00					99.84	
				3G	100.00		100.00					99.73	
				4G					100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					66.22(Photon whiz)			
					Plan 2					1155.59(Photo plus)			
					Plan 3					2050.335(Photon max)			
				2G	Plan 1	118.72	91.00	114(Open plan)		117.80(EDGE)	71.4		136.76(Rs. 1599 12GB free)
				3G	Plan 1	1543.63	1845.00	2869(Open plan)					5536.71(Rs. 1599 12GB free)
				4G	Plans				6935.07		1927.5728		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					72.60(Photon whiz)			
					Plan 2					1363.06(Photon plus)			
					Plan 3					2383.49(Photon max)			
				2G	Plan 1	244.66	143.00	122(Open plan)		132.12(EDGE)	90.6		197.62(Rs. 1599 12GB free)
				3G	Plan 1	3013.24	2037.00	3363(Open plan)					10207.40(Rs. 1599 12GB free)
				4G	Plans				30857.91		2084.741		
	6	Latency	Data <250ms	All Generations		240.00				83.22	127.7		
				2G (GSM)	210.00		181.00						179.17
				3G	130.00		94.00						49.42
				4G					56.66				
	7	PDP Context Activation Success Rate	≥95%	All Generations		99.38				98.78	99.3		
				2G (GSM)	99.90		99.82						99.77
			3G	100.00		99.19						99.21	
			4G					99.84					
8	Drop rate :	≤5%	All Generations		3.77				0.43	0.8			
			2G (GSM)	2.51		1.01						6.36	
			3G	0.83		1.39						0.44	

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018					Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
			4G					0.38				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	97.70	97.93		100.00	98	100	99.99
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		94.60				100	100	
				2G (GSM)	100.00		100.00					100.00
				3G	100.00		100.00					99.41
				CDMA								
				4G					100.00			
	3	Successful data transmission upload attempts	>75%	All Generations		91.70				100	100	
				2G (GSM)	100.00		100.00					99.98
				3G	100.00		100.00					99.71
				CDMA								
				4G					100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					75(Photon whiz)		
					Plan 2					1117(Photon plus)		
					Plan 3							
				2G	Plan 1	93.45	97.70	95(Open plan)		107(EDGE)	125.1	50.78(250 with 1GB)
				3G	Plan 1	1345.34	1913.70	2092(Open plan)				846.59
					Plan 2					2615(Photon 3G)		
					Plan 3							
				4G	Plans				5971.22		1464.1933	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					81(Photon whiz)		
					Plan 2					1415(Photon plus)		
					Plan 3							
				2G	Plan 1	197.16	129.00	203(Open plan)		134(EDGE)	157.8	200.54(with 1GB data)
				3G	Plan 1	2422.58	2959.70	5106(Open plan)				4911.29
					Plan 2					3344(Photon 3G)		
					Plan 3							
				4G	Plans				32897.16		2143.7314	
6	Latency	Data <250ms	All Generations			223.30			80	123.7		
			2G (GSM)	182.00			114.00				191.40	
			3G	57.00			54.00				95.28	
			CDMA									
			4G					59.93				
7	PDP Context Activation Success Rate	≥95%	All Generations			97.50			99.2	99.6		
			2G (GSM)	99.91			99.87				99.50	

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: March 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
8	Drop rate :	≤5%	3G	99.95		98.77					97.66	
			CDMA									
			4G					99.83				
			All Generations		2.40				1.5	0.66		
			2G (GSM)	0.76			1.76				4.18	
			3G	0.54			1.40				0.67	
			CDMA									
			4G						0.36			

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.



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

Report for quarter ending: March 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
West Bengal	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	96.00	98.90	98.80		99.96	100		100.00
	2	Successful data transmission download attempts	>80%	All Generations		99.06				100		
				2G (GSM)	100.00		100.00				99.60	
				3G	100.00						99.71	
				CDMA								
	3	Successful data transmission upload attempts	>75%	All Generations		99.03				100		
				2G (GSM)	100.00		100.00				99.52	
				3G	100.00						99.42	
				CDMA								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					40(Photon whiz)		
				CDMA	Plan 2							
				2G	Plan 1	98.01	175.60	135(Open plan)		78(EDGE)	97.33(2GB plan)	
				3G	Plan 1	1652.31	10478.00				2642(5GB plan)	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	4G	Plans				6788.10			
				CDMA	Plan 1					67(Photon whiz)		
				CDMA	Plan 2							
				2G	Plan 1	135.45	207.60	169(Open plan)		168(EDGE)	138.33(2GB plan)	
	6	Latency	Data <250ms	3G	Plan 1	2882.42	14752.90					5590(5GB plan)
				3G	Plan 2							
				3G	Plan 3							
				4G	Plans				28749.13			
	7	PDP Context Activation Success Rate	≥95%	All Generations		95.58				98.79		
				2G (GSM)	99.92		99.91				99.78	
				3G	99.92						96.82	
				CDMA								
				4G				99.76				
	8	Drop rate :	≤5%	All Generations						2.46		
				2G (GSM)	3.13		1.30				4.84	
				3G	0.51						0.93	
				3G(OSS)								
				CDMA								
				4G				0.45				

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

<b>Report for quarter ending: March 2018</b>				<b>Compliance Status</b>								
<b>Sl. No.</b>	<b>Parameters</b>	<b>Benchmarks</b>	<b>Generations</b>	<b>Airtel</b>	<b>BSNL</b>	<b>Idea</b>	<b>MTNL</b>	<b>Reliance JIO</b>	<b>TATA</b>	<b>Telenor</b>	<b>Vodafone</b>	
	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.											

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.