

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

**Report for quarter ending: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	97.00		99.74		100.00	100	100.00	
				2G		98.00						
				3G		98.00						
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	100.00	95.40	100.00				100.00	
				3G	100.00	99.10	100.00					
				4G	100.00		100.00		100.00			
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	100.00	97.70	100.00				100.00	
				3G	100.00	98.50	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						63(Photon Whiz)	
					Plan 2						1861(Photon Plus)	
				2G	Plan 1	149.00	30.3(2G Postpaid)	139(Open Plan)			121(EDGE)	153.57
					3G	1568.00	891(3G(Postpaid)	4212(Open plan)				
					4G	9622.00		14219(Open plan)		4864.35		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						73(Photon Whiz)	
					Plan 2						2085(Photon Plus)	
				2G	Plan 1	194.00	106.7(2G Postpaid)	158(Open Plan)			130(EDGE)	191.60
					3G	2067.00	2621.3(3G(Postpaid)	5378(Open plan)				
					4G	20959.00		15237(Open Plan)		19979.79		
	6	Latency	Data <250ms	All Generations						98.1		
				2G (GSM)	120.00	236.00	115.00				132.83	
				3G	83.00	59.30	27.00					
				4G	57.00		21.00		59.96			
	7	PDP Context Activation Success Rate	≥95%	All Generations						98.1		
				2G (GSM)	99.92	99.80	99.90				99.62	
				3G	99.83	100.00	95.10					
4G				99.54		99.53		99.83				
8	Drop rate :	≤5%	All Generations						0.6			
			2G (GSM)	2.71	1.80	1.92				3.12		
			3G	0.64	1.10	0.55						
			4G	0.42		0.74		0.39				

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	58.00		99.97		97.44		99.99	
				2G		100.00						
				3G		100.00						
	2	Successful data transmission download attempts	>80%	All Generations								
				2G (GSM)	100.00	98.00	100.00				100.00	
				3G	100.00	98.30					97.22	
				4G	100.00		100.00		100.00		99.82	
	3	Successful data transmission upload attempts	>75%	All Generations								
				2G (GSM)	100.00	98.60	100.00				100.00	
				3G	100.00	97.60					100.00	
				4G	100.00		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							
					Plan 3							
				2G	Plan 1	120.00	82(All plans)	78(Open plan)				95.22
					Plan 2							
					Plan 3							
				3G	Plan 1	2084.00	1251(All plans)					944.82
					Plan 2							
					Plan 3							
				4G	Plans	11107.00		7497(Open plan)		4208.22		3143.13
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					2G	Plan 1	187.00	141(All plans)	149(Open plan)			138.60
				3G	Plan 1	2865.00	2890(All plans)					4081.74
					Plan 2							
					Plan 3							
				4G	Plans	22107.00		12167(Open plan)		17665.56		5971.40
	6	Latency	Data <250ms	All Generations								
				2G (GSM)	243.00	250.70	121.00				223.00	
				3G	150.00	162.50					249.00	
				CDMA								
4G				58.00		79.00		46.98		45.33		
7	PDP Context Activation Success Rate	≥95%	All Generations									
			2G (GSM)	99.91	98.40	97.27				99.73		
			3G	99.93	98.30					97.07		
			CDMA									
			4G	100.00		98.85		99.79		99.89		
8	Drop rate :	≤5%	All Generations									
			2G (GSM)	3.07		0.18				2.58		
			3G	1.31	1.50					0.66		
			4G	1.38		0.50		0.35		0.55		

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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				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone					
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00		97.22		100.00	100	99.99				
				2G		100.00									
				3G		100.00									
	2	Successful data transmission download attempts	>80%	All Generations						100					
				2G (GSM)	99.35	100.00	100.00			100.00					
				3G	99.96	100.00	100.00								
				4G	100.00		100.00		100.00						
	3	Successful data transmission upload attempts	>75%	All Generations						100					
				2G (GSM)	99.65	100.00	100.00			100.00					
				3G	99.26	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						29(Photon Whiz)				
					Plan 2						712(Photon Plus)				
					Plan 3										
				2G	Plan 1	45.00	56.2(2G postpaid)	95(Open plan)			132(EDGE)	140.00			
					Plan 2		51.9(Prepaid 2G data)								
				3G	Plan 1	1302.00	710.7(3G postpaid data plans)	2155(Open plan)							
					Plan 2		710.7(3G Prepaid data plan)								
					Plan 3										
				4G	Plans	7657.00		3713(Open plan)		4535.08					
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						51(Photon Whiz)	
								Plan 2						1834(Photon Plus)	
								Plan 3							
	2G	Plan 1	144.00				106.1(2G Postpaid data plans)	190(Open plan)			151(EDGE)	162.00			
		Plan 2					106.1(Prepaid 2G data)								
	3G	Plan 1	2790.00				1858.9(3G Postpaid data plan)	3792(Open plan)							
		Plan 2					1858.9(3G Prepaid data plan)								
		Plan 3													
	4G	Plans	10767.00					8298(Open plan)		21670.64					
	6	Latency	Data <250ms				All Generations						120.94		
							2G (GSM)	144.00	198.60	233.00				122.00	
							3G	119.00	113.80	106.00					
				4G	45.00		85.00		55.43						
	7	PDP Context Activation Success Rate	≥95%	All Generations						98.4					
				2G (GSM)	99.87	97.60	99.31				99.65				
				3G	99.30	96.80	93.81								
4G				98.70		99.97		99.80							
8	Drop rate :	≤5%	All Generations						0.64						
			2G (GSM)	3.86		2.56				1.16					
			3G	0.12	0.90	0.30									
			4G	1.03		0.37		0.40							

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone			
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)		97.13							
				3G		98.34							
				CDMA									
	3	Successful data transmission upload attempts	>75%	All Generations									
				2G (GSM)		97.88							
				3G		98.24							
				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		523.00						
					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		140.00						
					Plan 2								
				3G	Plan 1		2752.00						
					Plan 2								
	4G	Plans											
	6	Latency	Data <250ms	All Generations									
2G (GSM)					213.00								
3G					93.00								
CDMA													
4G													
7	PDP Context Activation Success Rate	≥95%	All Generations										
			2G (GSM)		98.40								
			3G		97.84								
			CDMA										
			4G										
8	Drop rate :	≤5%	All Generations										
			2G (GSM)		1.75								
			3G		1.88								
			CDMA										
			4G										

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Delhi	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	96.00		99.53	99.14	99.99	100	99.99	
				3G								
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	99.64		100.00	95.61			99.72	
				3G	99.97		100.00	98.73			99.70	
				CDMA								
				4G	100.00				100.00		98.20	
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	99.73		100.00	90.45			99.72	
				3G	99.97		100.00	97.76			96.63	
				CDMA								
				4G	100.00				100.00		94.01	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA						48(Photon whiz)		
										1512(Photon Plus)		
										2643(Photon Max)		
				2G	Plan 1	80.00		70(Open plan)	91.58			77.00
				3G	Plan 1	1395.00		1058(Open plan)	697.07			4282.67
					Plan 2							
					Plan 3							
				4G	Plans	6810.00				5230.66		7486.67
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					76(Photon Whiz)		
					Plan 2					1975(Photon Plus)		
					Plan 3					3222(Photon Max)		
				2G	Plan 1	117.00		151(Open plan)	100.42			175.60
				3G	Plan 1	2360.00		5144(Open plan)	3762.00			8302.22
					Plan 2							
					Plan 3							
				4G	Plans	18641.00				25628.76		15001.64
	6	Latency	Data <250ms	All Generations				133.00		128		
				2G (GSM)	227.00		137.00				193.00	
				3G	83.00		60.00				126.33	
				CDMA								
			4G	77.00				37.12		34.33		
7	PDP Context Activation Success Rate	≥95%	All Generations				99.38		96.85			
			2G (GSM)	99.91		99.34				99.63		
			3G	100.00		99.16				97.61		
			CDMA									
			4G	97.90				99.76		99.56		
8	Drop rate :	≤5%	All Generations				2.84		0.28			
			2G (GSM)	2.17		0.17				3.73		
			3G	0.60		0.60				0.46		
			CDMA									
			4G	0.56				0.35		0.13		

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Gujarat	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	96.00	98.00	99.21		100.00	100	99.95	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		99.00						
				2G (GSM)	100.00		100.00			100	99.29	
				3G	100.00		100.00				99.57	
				CDMA								
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		98.00					100	
				2G (GSM)	100.00		100.00				98.77	
				3G	100.00		100.00				100.00	
				CDMA								
				4G	100.00		100.00		100.00		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							
					Plan 3							
				2G	Plan 1	75.00		104(Open plan)			83(EDGE)	81.19
				3G	Plan 1	2918.00	1500 Kbps	2160(Open plan)				2106.13
					Plan 2					2199(Photon 3G)		
					Plan 3					3451(Photon3G+)		
				4G	Plans	4697.00		7580(Open plan)		7063.03		6153.66
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						83(Photon Whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	152.00		195(Open plan)			135(EDGE)	131.56
				3G	Plan 1	4785.00	1959 Kbps	4874(Open plan)				5396.85
					Plan 2					3415(Photon 3G)		
					Plan 3					5615(Photon3G+)		
				4G	Plans	10833.00		15777(Open plan)		27481.32		16402.69
	6	Latency	Data <250ms	All Generations			94ms				69.2	
				2G (GSM)	223.00			85.00				133.67
				3G	98.00			45.00				57.67
				CDMA								
			4G	53.00			36.00		45.49		33.00	
7	PDP Context Activation Success Rate	≥95%	All Generations		98.50					98.9		
			2G (GSM)	99.98			99.89				99.76	
			3G	99.58			99.99				99.34	
			CDMA									
			4G	98.22			99.40		99.86		99.87	
8	Drop rate :	≤5%	All Generations		1.35					1.7		
			2G (GSM)	4.78			0.35				4.94	
			3G	0.74			0.66				0.54	
			CDMA									
			4G	0.69			0.37		0.38		0.33	

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone			
Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		98.00	100.00	99.70		100.00	100	100.00	
				2G (GSM)									
				3G									
				CDMA									
	2	Successful data transmission download attempts	>80%	All Generations			92.00				100		
				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			91.00				100		
				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							45(Photon Whiz)	
					Plan 2								
				2G	Plan 1	107.00	75.00	79(Open plan)			61(EDGE)	130.30	
					Plan 2								
				3G	Plan 1	1198.00	885.00	2061(Open plan)					
					Plan 2								
					Plan 3								
				4G	Plans	1784.00		2413(Open plan)		4140.21			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						66(Photon Whiz)		
					Plan 2								
				2G	Plan 1	136.00	103.00	173(Open plan)			95(EDGE)	187.80	
					Plan 2								
				3G	Plan 1	3772.00	1539.00	3914(Open plan)					
					Plan 2								
					Plan 3								
				4G	Plans	11072.00		6020(Open plan)		19543.07			
6	Latency	Data <250ms	All Generations			101.00				158.28			
			2G (GSM)		187.00		220.00				107.00		
			3G		176.00		176.00						
			4G		77.00		121.00		47.58				
7	PDP Context Activation Success Rate	≥95%	All Generations			99.00				96.86			
			2G (GSM)		99.72		100.00				99.50		
			3G		100.00		100.00						
			4G		99.11		100.00		99.90				
8	Drop rate :	≤5%	All Generations			1.00				0.43			
			2G (GSM)		1.74		0.70				2.39		
			3G		0.62		0.87						
			4G		0.54		0.59		0.32				

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	97.67	99.80		100.00	100	99.88	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		86.26				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		84.99				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				4G	100.00		100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						24.84(Photon Whiz)	
					Plan 2							
				2G	Plan 1	163.00	82.67	109(Open plan)			69(EDGE)	143.23
				3G	Plan 1	1935.00	958.33	1964(Open plan)			473.67(Photon 3G)	4448.97
					Plan 2						1637(Photon 3G)	
					Plan 3						1561.67(Photon3 G+)	
				4G	Plans	3072.00		5180(Open plan)		12905.09		9738.07
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						69.28(Photon Whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	175.00	118.67	151(Open plan)			103.44(EDGE)	193.79
				3G	Plan 1	3587.00	1706.00	4048(Open plan)			2057.95(Photon 3G)	7829.17
					Plan 2						2507.18(Photon 3G)	
					Plan 3						2863.78(Photon3 G+)	
				4G	Plans	18000.00		12288(Open plan)		35379.28		15756.66
	6	Latency	Data <250ms	All Generations			116.67				81.4	
				2G (GSM)	211.00			141.00				78.76
				3G	107.00			36.00				18.95
				4G	84.00			27.00		43.61		17.11
	7	PDP Context Activation Success Rate	≥95%	All Generations			96.07				99	
				2G (GSM)	99.62			99.66				99.73
				3G	100.00			98.49				98.95
			4G	98.34			96.57		99.75		99.99	
8	Drop rate :	≤5%	All Generations			3.97				0.9		
			2G (GSM)	0.86			2.35				4.77	
			3G	0.14			1.78				0.97	
			4G	0.14			0.58		0.37		0.49	

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Jammu and Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	98.00	96.00	99.66		99.98	100.00	
				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		100.00		100.00		
	3	Successful data transmission upload attempts	>75%	All Generations		89.00					
				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	176.00	12.00	124(Open plan)			134.13	
				3G Plan 1	3857.00	356.00	2059(Open plan)				
				4G Plans	23142.00		3684(Open plan)		5282.44		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1							
				2G Plan 1	210.00	30.00	152(Open plan)			171.33	
				3G Plan 1	4608.00	424.00	4420(Open plan)				
				4G Plans	23859.00		5296(Open plan)		20241.07		
	6	Latency	Data <250ms	All Generations		109.00					
				2G (GSM)	210.00		207.00			133.00	
				3G	85.00		171.00				
				4G	57.00		107.00		42.09		
	7	PDP Context Activation Success Rate	≥95%	All Generations		98.00					
				2G (GSM)	99.97		100.00			99.94	
				3G	100.00		100.00				
				4G	98.25		100.00		99.29		
	8	Drop rate :	≤5%	All Generations		1.40					
				2G (GSM)	2.77		0.32			1.87	
3G				0.71		1.18					
4G				0.64		0.61		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: June 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	96.00			99.01	99.99	100	99.98	
				3G								
	2	Successful data transmission download attempts	>80%	All Generations		96.30				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				CDMA								
				4G	100.00				100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		94.60					100	
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				99.96	
				CDMA								
				4G	100.00				100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA							59(Photon Whiz)	
											693(Photon Plus)	
				2G	Plan 1	171.00	42.60	102(Open plan)			66(EDGE)	165.30
					Plan 2							
				3G	Plan 1	4280.00	645.00	2282(Open plan)				4384.44
					Plan 2							
					Plan 3							
				4G	Plans	149752.00				6388.33		7333.47
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						77(Photon Whiz)	
					Plan 2						1133(Photon Plus)	
				2G	Plan 1	171.00	78.30	156(Open plan)			160(EDGE)	202.19
				3G	Plan 1	6569.00	1776.00	4306(Open plan)				9268.00
					Plan 2							
					Plan 3							
				4G	Plans	23329.00				28436.19		19834.04
	6	Latency	Data <250ms	All Generations		112.60					121.5	
				2G (GSM)	143.00		167.00				133.00	
				3G	57.00		92.00				38.00	
				CDMA								
				4G	33.00				62.97		31.33	
7	PDP Context Activation Success Rate	≥95%	All Generations						98.4			
			2G (GSM)	100.00	99.88	98.74				99.82		
			3G	99.87	99.93	99.99				98.09		
			CDMA									
			4G	99.59				99.80		99.97		
8	Drop rate :	≤5%	All Generations						1.01			
			2G (GSM)	2.68		1.50				4.28		
			GSM (OSS)									
			3G	0.10		0.22				0.74		
			3G (OSS)									
			CDMA									
			4G	0.07				0.32		0.24		

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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	97.00		99.62		100.00	100	99.89	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		96.62				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				CDMA								
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		95.72				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				CDMA								
				4G	100.00		100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						44(Photon Whiz)	
					Plan 2						1071(Photon Plus)	
					Plan 3						1215(Photon Max)	
				2G	Plan 1	142.00	40.67	102(Open plan)			51(EDGE)	180.95
				3G	Plan 1	2355.00	553.55	3163(Open plan)				4980.29
					Plan 2						2269(Photon 3G)	
					Plan 3						2347(Photon3G+)	
				4G	Plans	4373.00		8005(Open plan)		5479.34		8943.42
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						54(Photon Whiz)	
					Plan 2						1321(Photon Plus)	
					Plan 3						1539(Photon Max)	
				2G	Plan 1	200.00	74.09	110(Open plan)			80(EDGE)	186.62
				3G	Plan 1	6062.00	1287.38	4050(Open plan)				6520.35
					Plan 2						3072(Photon 3G)	
					Plan 3						4048(Photon3G+)	
				4G	Plans	16513.00		9031(Open plan)		21317.82		10589.70
	6	Latency	Data <250ms	All Generations			127.00				76.7	
				2G (GSM)		218.00		99.00				69.33
				3G		96.00		33.00				28.67
				CDMA								
			4G		70.00		30.00		49.98		23.33	
7	PDP Context Activation Success Rate	≥95%	All Generations			97.48				98.9		
			2G (GSM)		100.00		99.73				99.56	
			3G		99.92		98.60				88.65	
			CDMA				98.94					
			4G		99.43				99.88		99.98	
8	Drop rate :	≤5%	All Generations			0.77				1.8		
			2G (GSM)		1.45		2.02				3.66	
			3G		0.30		1.24				1.37	
			CDMA									
			4G		0.56		0.62		0.49		0.58	

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: June 2018				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Karnataka	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	97.00	100.00	99.15	99.99	100	99.97	
				2G (GSM)							
	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	
				CDMA							
				4G	100.00		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	
				CDMA							
				4G	100.00		100.00		100.00	100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					55.42(Photon Whiz)	
					Plan 2					775(Photon Plus)	
					Plan 3					967(Photon Max)	
				2G	Plan 1	112.00	128.33	168(Open plan)		41.25(EDGE)	236.40
				3G	Plan 1	1692.00	1523.97				5317.73
					Plan 2					1844(Photon 3G)	
					Plan 3					2092(Photon3G+)	
				4G	Plans	4758.00		7663(Open plan)	4112.32		14043.70
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					103.35(Photon Whiz)	
					Plan 2					1589(Photon Plus)	
					Plan 3					1647(Photon Max)	
				2G	Plan 1	185.00	182.98	167(Open plan)		111.02(EDGE)	249.90
				3G	Plan 1	3646.00	4214.04			3195(Photon 3G)	6598.67
					Plan 2					3627(Photon3G+)	
					Plan 3						
				4G	Plans	12438.00		12383(Open plan)	25228.09		17398.89
	6	Latency	Data <250ms	All Generations		104.57				68.9	
				2G (GSM)	103.00		138.00				139.00
				3G	76.00						32.00
				CDMA							
				4G	23.00		10.00		68.93		28.00
	7	PDP Context Activation Success Rate	≥95%	All Generations		37.48				98.9	
				2G (GSM)	99.04		99.45				99.63
				3G	99.91						83.20
				CDMA							
				4G	99.80		99.78		99.80		99.47
	8	Drop rate :	≤5%	All Generations		0.53				0.6	
				2G (GSM)	3.00		0.33				2.35
			3G	0.45						0.38	
			CDMA								
			4G	0.31		0.07		0.53		0.14	

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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	95.00	99.00	99.30		100.00	100	99.98	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		94.35				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		91.09				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				4G	100.00		100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						70.11(Photon Whiz)	
					Plan 2						858.1(Photon Plus)	
				2G	Plan 1	82.00	98.00	121(Open plan)			52(EDGE)	139.86
				3G	Plan 1	1655.00	3183.00	3832(Open plan)				2526.63
					Plan 2					486.96(Photon 3G)		
					Plan 3					2794.53(Photon3 G+)		
				4G	Plans	6899.00		4053(Open plan)		6556.10		4240.93
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						80.04(Photon Whiz)	
					Plan 2						1417.78(Photon Plus)	
					Plan 3							
				2G	Plan 1	144.00	116.00	175(Open plan)			118.58(EDGE)	219.34
					Plan 2							
					Plan 3							
				3G	Plan 1	3488.00	2950.00	6351(Open plan)				5402.66
					Plan 2					6919.42(Photon 3G)		
					Plan 3					6497.25(Photon3 G+)		
				4G	Plans	23661.00		9156(Open plan)		25597.15		12072.27
	6	Latency	Data <250ms	All Generations			124.00				70.9	
				2G (GSM)	230.00			160.00				236.94
				3G	54.00			130.00				74.12
				4G	87.00			36.00		61.09		48.70
	7	PDP Context Activation Success Rate	≥95%	All Generations		96.48					98.5	
			2G (GSM)	100.00			99.84				99.91	
			3G	100.00			99.87				99.70	
			4G	100.00			99.77		99.82		99.95	
8	Drop rate :	≤5%	All Generations		2.48					1.1		
			2G (GSM)	0.00			2.14				4.94	
			3G	0.00			1.10				0.93	
			4G	0.00			0.68		0.48		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: June 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Madhya Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.00			98.67	100.00	100	100.00	
				2G		97.35						
				3G		97.31						
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	98.80	100.00	100.00			100.00		
				3G	98.98	100.00	100.00					
				4G	99.22		100.00		100.00			
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	98.52	100.00	100.00			100.00		
				3G	98.78	100.00	100.00					
				4G	98.99		100.00		100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						47(Photon whiz)	
					Plan 2							
				2G	Plan 1	89.00		88(Open plan)			71(EDGE)	108.29
				3G	Plan 1	1038.00	1385(3G postpaid data plans-FMC-50)	2395(Open plan)				
					Plan 2		1299(3G postpaid data plans-FMC-225)				1669(Photon 3G)	
					Plan 3		1316(3G postpaid data plans-FMC-501)					
							1236(3G postpaid data plans-FMC-666)					
							1368(3G postpaid data plans-FMC-901)					
							1224(3G prepaid data recharge vouchers-98)					
							1150(3G prepaid data recharge-155)					
							1169(3G prepaid data recharge-197)					
							1358(3G prepaid data recharge-333)					
						1267(3G prepaid data recharge-444)						
					1369(3G prepaid data recharge-429)							
		1256(3G prepaid data recharge-549)										
		1357(3G prepaid data recharge-561)										
4G	Plans	6831.00		3682(Open plan)			4295.68					

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: June 2018					Compliance Status									
SI. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone			
Madhya Pradesh	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						79(Photon Whiz)			
					Plan 2									
				2G	Plan 1	187.00		143(Open plan)				106(EDGE)	179.11	
				3G	Plan 1	2723.00	2697(3G postpaid data plans-FMC-75)	4108(Open plan)						
					Plan 2		2469(3G postpaid data plans-FMC-225)					2840(Photon 3G)		
					Plan 3		2200(3G postpaid data plans-FMC-501)							
							2036(3G postpaid data plans-FMC-666)							
							2100(3G postpaid data plans-FMC-901)							
							2625(3G prepaid data recharge vouchers-98)							
							2945(3G prepaid data recharge-155)							
							2018.3(3G prepaid data recharge-197)							
							3102(3G prepaid data recharge-333)							
							3286(3G prepaid data recharge-444)							
			2956(3G prepaid data recharge-429)											
			2659(3G prepaid data recharge-549)											
			2746(3G prepaid data recharge-561)											
		4G	Plans	12017.00		9284(Open plan)			21535.14					
	6	Latency	Data <250ms	All Generations							94.5			
				2G (GSM)		114.00	196.80	123.00				107.37		
				3G		33.00	107.60	77.00						
4G					41.00		51.00		57.81					
7	PDP Context Activation Success Rate	≥95%	All Generations							98.9				
			2G (GSM)		99.99	96.80	99.63				99.43			
			3G		99.70	97.90	98.55							
			4G		99.32		98.04		99.82					
8	Drop rate :	≤5%	All Generations							1.7				
			2G (GSM)		4.16		0.55				2.48			
			3G		0.24	0.90	0.91							
			4G		0.31		0.38		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: June 2018**

**Compliance Status**

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status							
					Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
<b>Mumbai</b>	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	94.00		98.80	98.96	99.99	99	99.93	
				3G								
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	100.00		100.00	99.93			100.00	
				3G	100.00			99.89			100.00	
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	100.00		100.00	99.94			100.00	
				3G	100.00			99.46			100.00	
				4G	100.00		100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						37(Photon Whiz)	
					Plan 2						965(Photon Plus)	
				2G	Plan 1	169.00		75(Open plan)	55.40		84(EDGE)	151.89
				3G	Plan 1	3193.00			638.26			5907.88
				4G	Plans	9305.00		12640(Open plan)		5987.47		7507.36
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						82(Photon Whiz)	
					Plan 2						2036(Photon Plus)	
				2G	Plan 1	190.00		131(Open plan)	76.67		120(EDGE)	184.45
				3G	Plan 1	3790.00			970.11			7418.04
				4G	Plans	13092.00		20973(Open plan)		22767.47		21168.34
	6	Latency	Data <250ms	All Generations							83.97	
				2G (GSM)		93.00						80.64
				3G		23.00			205.97			14.66
				4G		18.00				34.85		15.80
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.93		98.37	
				2G (GSM)		99.98			99.27			99.46
				3G		99.94						97.31
				4G		99.88			99.33		99.75	99.73
8	Drop rate :	≤5%	All Generations					1.93		2.61		
			2G (GSM)		3.78			0.26			4.81	
			3G		0.48						0.93	
			4G		0.52			0.79	0.34		0.58	

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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status							
					Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
North East-I	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		74.00		99.92		99.23		100.00
				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					98.21
				4G		100.00		100.00		100.00		99.23
	3	Successful data transmission upload attempts	>75%	All Generations								
				2G (GSM)		100.00	100.00	100.00				100.00
				3G		100.00	100.00					98.91
				4G		100.00		100.00		100.00		99.44
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							
				2G	Plan 1	122.00	79.53	55(Open plan)				188.85
				3G	Plan 1	2160.00	1973.40					715.90
					Plan 2							
					Plan 3							
	4G	Plans	10204.00		6274(Open		5547.21		6673.92			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
				2G	Plan 1	178.00	85.10	98(Open plan)				226.64
				3G	Plan 1	3093.00	1978.01					5206.18
					Plan 2							
					Plan 3							
	4G	Plans	22241.00		11720(Open		23271.16		14719.58			
	6	Latency	Data <250ms	All Generations								
				2G (GSM)		243.00	203.00	174.00				159.67
				3G		153.00	164.00					107.83
				4G		62.00		79.00		90.70		46.00
	7	PDP Context Activation Success Rate	≥95%	All Generations								
				2G (GSM)		99.97	145.63	97.26				99.73
				3G		99.92	153.00					97.07
				4G		100.00		98.41		98.36		99.89
	8	Drop rate :	≤5%	All Generations								
2G (GSM)				2.73		0.21				3.88		
3G				1.76	0.48					0.86		
4G				0.97		0.72		0.49		0.92		

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: June 2018					Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	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									
	3	Successful data transmission upload attempts	>75%	All Generations			97.00						
				2G (GSM)									
				3G									
	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								
				4G	Plans								
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
				2G	Plan 1								
				3G	Plan 1		970 kbps						
					Plan 2								
				4G	Plans								
	6	Latency	Data <250ms	All Generations			115 ms						
				2G (GSM)									
				3G									
				4G									
	7	PDP Context Activation Success Rate	≥95%	All Generations			98.00						
				2G (GSM)									
				3G									
				4G									
	8	Drop rate :	≤5%	All Generations			0.61						
				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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Orissa	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00		99.64		100.00	100	99.92	
				2G		100.00						
				3G		100.00						
	2	Successful data transmission download attempts	>80%	All Generations					100.00	100		
				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	100		
				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						66(Photon Whiz)	
					Plan 2							
				2G	Plan 1	91.00	89(All plan)	63(Open plan)			137(EDGE)	180.08
					Plan 2							
				3G	Plan 1	1902.00	1536.33(All plan)					6088.33
					Plan 2							
					Plan 3							
	4G	Plans	10216.00		2253(Open plan)		7813.65		6431.49			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						71(Photon whiz)	
					Plan 2							
				2G	Plan 1	163.00	160.48(All plan)	153(Open plan)			140(EDGE)	196.98
					Plan 2							
				3G	Plan 1	3462.00	5475.27(All plan)					9492.67
					Plan 2							
					Plan 3							
	4G	Plans	11426.00		8329(Open plan)		29797.71		12469.37			
	6	Latency	Data <250ms	All Generations						122.32		
				2G (GSM)	164.00	297.51	70.00			120.67		
				3G	58.00	80.51				57.00		
4G				50.00		118.00		44.34	28.00			
7	PDP Context Activation Success Rate	≥95%	All Generations						98.4			
			2G (GSM)	99.54	98.83	99.68			99.90			
			3G	99.60	98.85				98.03			
			4G	99.90		99.71		99.80	99.97			
8	Drop rate :	≤5%	All Generations						0.52			
			2G (GSM)	3.75		2.19			2.38			
			3G	0.47	1.25				0.59			
			4G	0.27		0.56		0.39	0.27			

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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Punjab	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	97.00	100.00	99.03		99.99	98	99.97	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		95.78				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		94.36				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				4G	100.00		100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						36.87(Photon Whiz)	
					Plan 2						1715(Photon Plus)	
					Plan 3						1744.75(Photon Max)	
				2G	Plan 1	89.00		89(Open plan)			73.53(EDGE)	149.46
				3G	Plan 1	1052.00	1304.17	2004(Open plan)			1162.77(Photon 3G)	4439.96
					Plan 2						1323.88(Photon 3G)	
					Plan 3							
				4G	Plans	3180.00		2857(Open plan)		4742.90		4759.41
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						64.90(Photon Whiz)	
					Plan 2						2025.20(Photon Plus)	
					Plan 3						2679.51(Photon Max)	
				2G	Plan 1	142.00		159(Open plan)			112.80(EDGE)	180.64
				3G	Plan 1	1792.00	1689.42	4505(Open plan)			1838.53(Photon 3G)	7151.31
					Plan 2						2722.54(Photon 3G)	
					Plan 3							
				4G	Plans	10486.00		5446(Open plan)		24769.78		7917.21
	6	Latency	Data <250ms	All Generations							84.8	
				2G (GSM)	205.00		241.00					89.17
				3G	127.00	129.43	74.00					15.67
				4G	81.00		58.00		37.74			15.83
	7	PDP Context Activation Success Rate	≥95%	All Generations		96.97					99	
				2G (GSM)	99.82		100.00					99.50
			3G	100.00		100.00					98.57	
			4G	99.22		100.00		98.98			99.98	
8	Drop rate :	≤5%	All Generations		1.20					1.6		
			2G (GSM)	0.30		2.63					3.42	
			3G	0.07		0.28					0.58	
			4G	0.13		0.25		0.21			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: June 2018				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.00			99.87	100.00	100	99.98	
				3G								
	2	Successful data transmission download attempts	>80%	All Generations		100.00					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		100.00			100.00		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						63(Photon Whiz)	
					Plan 2							
				2G	Plan 1	134.00		130(Open plan)			79(EDGE)	120.43
				3G	Plan 1	2801.00	259.78(postpaid data plan 50)	3870(Open plan)				4313.52
							264.20(postpaid data plan 75)					
							252.62(postpaid data plan 170)					
							254.77(postpaid data plan 225)					
							257.04(postpaid data plan 501)					
							263.44(postpaid data plan 666)					
							257.99(postpaid data plan 901)					
							247.10(postpaid data plan 1711)					
							247.80(Prepaid data STV 4)					
							255.64(Prepaid data STV 14)					
							250.43(Prepaid data STV 31)					
							277.16(Prepaid data STV 39)					
							257(Prepaid data STV 56)					
							265.51(Prepaid data STV 78)					
						251.54(Prepaid data STV 98)						
			268.89(Prepaid data STV 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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status							
					Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Rajasthan						263.23(Prepaid data STV 198)						
						266.48(Prepaid data STV 444)						
						258.12(Prepaid data STV 561)						
						251.87(Prepaid data STV 549)						
				4G	Plans	18608.00		6212(Open		9630.68		6242.92
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						82(Photon whiz)	
					Plan 2							
				2G	Plan 1	152.00		197(Open plan)			92(EDGE)	183.92
				3G	Plan 1	3653.00	258.53	7187(Open plan)				8178.58
				4G	Plans	21922.00		9146(Open		33411.24		12990.41
	6	Latency	Data <250ms	All Generations			90.67				147.1	
					2G (GSM)	162.00		95.00				127.00
					3G	71.00		52.00				101.83
					CDMA							
					4G	60.00		36.00		48.02		45.83
	7	PDP Context Activation Success Rate	≥95%	All Generations			1.00				98.4	
				2G (GSM)	99.82		99.27				99.65	
				3G	100.00		98.41				98.68	
				CDMA								
				4G	96.85		98.99		99.86		99.28	
8	Drop rate :	≤5%	All Generations			0.00				1.00		
				2G (GSM)	2.12		0.11				4.19	
				3G	0.40		0.21				0.65	
				CDMA								
				4G	0.35		0.06		0.33		0.32	

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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Tamilnadu	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	97.00	100.00	99.66		100.00	100	99.98	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations							100	
				2G (GSM)	100.00	96.71	100.00				100.00	
				3G	100.00	97.18					100.00	
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations							100	
				2G (GSM)	100.00	95.93	100.00				100.00	
				3G	100.00	97.83					100.00	
				4G	100.00		100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						28(Photon Whiz)	
					Plan 2							
				2G	Plan 1	94.00	87.44	88(Open plan)			42(EDGE)	119.55
				3G	Plan 1	2892.00	1063.68					2926.05
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	4G	Plans	4435.00		5155(Open plan)		4656.00		6208.48
				CDMA	Plan 1						66(Photon whiz)	
					Plan 2							
				2G	Plan 1	191.00	205.55	146(Open plan)			92(EDGE)	161.77
	6	Latency	Data <250ms	3G	Plan 1	6752.00	2097.56					6393.18
				4G	Plans	8802.00		8124(Open plan)		24013.11		16178.93
				All Generations							193.17	
				2G (GSM)	223.00	549.41	111.00					141.17
	7	PDP Context Activation Success Rate	≥95%	3G		63.00	184.50					27.83
				CDMA								
				4G	45.00		31.00		57.76		15.67	
				All Generations							97.71	
				2G (GSM)	100.00	98.92	99.68					99.54
	8	Drop rate :	≤5%	3G		99.10	99.32					99.33
CDMA												
4G				99.35		99.53		99.88		99.71		
All Generations										1.06		
2G (GSM)				1.60	0.45	1.42					3.37	
		0.19	0.05					0.72				
				0.19		0.43		0.32		0.23		

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: June 2018				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Uttar Pradesh (East)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	98.26	99.88		100.00	100	100.00
				2G (GSM)							
	2	Successful data transmission download attempts	>80%	All Generations		84.90				100	
				2G (GSM)	100.00		100.00				99.75
				3G	100.00		100.00				99.68
				4G	100.00		100.00		100.00		100.00
	3	Successful data transmission upload attempts	>75%	All Generations		81.53				100	
				2G (GSM)	100.00		100.00				99.73
				3G	100.00		100.00				99.78
				4G	100.00		100.00		100.00		99.95
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					70.88(Photon Whiz)	
					Plan 2						
					Plan 3						
				2G	Plan 1	118.00	91.00	210(Open plan)		110.90(EDGE)	132.77
				3G	Plan 1	1648.00	1829.00	4433(Open plan)			5166.89
				4G	Plans	2361.00		4942(Open plan)	4830.14		7316.65
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					74.09(Photon Whiz)	
					Plan 2						
					Plan 3						
				2G	Plan 1	210.00	143.00	240(Open plan)		126.73(EDGE)	191.58
				3G	Plan 1	2632.00	2051.00	5872(Open plan)			9753.06
				4G	Plans	3857.00		9088(Open plan)	28462.22		21532.06
	6	Latency	Data <250ms	All Generations		241.00				109.98	
				2G (GSM)	231.00		191.00				203.70
				3G	151.00		98.00				53.64
				4G	68.00		121.00		49.26		82.89
	7	PDP Context Activation Success Rate	≥95%	All Generations		99.27				96.2	
				2G (GSM)	99.86		95.70				99.50
			3G	99.84		96.13				99.20	
			4G	95.41		95.97		99.84		99.95	
8	Drop rate :	≤5%	All Generations		3.50				0.16		
			2G (GSM)	2.72		2.03				4.63	
			3G	0.38		2.19				0.43	
			4G	0.52		0.53		0.47		0.41	

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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00	97.50	99.48		100.00	100	99.98	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		94.60				100		
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				99.31	
				CDMA								
				4G	100.00		100.00		100.00		99.03	
	3	Successful data transmission upload attempts	>75%	All Generations		91.60					100	
				2G (GSM)	100.00		100.00				100.00	
				3G	100.00		100.00				100.00	
				CDMA								
				4G	100.00		100.00		100.00		100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						77(Photon Whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	89.00	97.00	107(Open plan)			103(EDGE)	74.33
				3G	Plan 1	1361.00	1965.30	1573(Open plan)				1022.08
					Plan 2					2160(Photon 3G)		
					Plan 3							
				4G	Plans	1656.00		4032(Open plan)		8016.30		1760.94
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						81(Photon Whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	196.00	129.00	206(Open plan)			128(EDGE)	216.13
				3G	Plan 1	2427.00	2956.30	4719(Open plan)				4440.53
					Plan 2					3317(Photon 3G)		
					Plan 3							
				4G	Plans	3427.00		5111(Open plan)		31687.75		5188.10
	6	Latency	Data <250ms	All Generations			223.00				93.5	
				2G (GSM)	183.00			114.00				203.76
				3G	95.00			40.00				103.85
				CDMA								
			4G	46.00			50.00		47.14		71.33	
7	PDP Context Activation Success Rate	≥95%	All Generations			97.60				98.6		
			2G (GSM)	98.72			98.21				99.61	
			3G	99.98			97.93				98.80	
			CDMA									
			4G	97.04			99.80		99.78		99.94	
8	Drop rate :	≤5%	All Generations			2.60				4.3		
			2G (GSM)	0.60			1.67				4.86	
			3G	0.41			1.72				0.90	
			CDMA									
			4G	0.43			0.54		0.33		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: June 2018**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
West Bengal	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.50	99.76		100.00	100	100.00	
				3G								
	2	Successful data transmission download attempts	>80%	All Generations		98.93				100		
				2G (GSM)	100.00		100.00				98.65	
				3G	100.00						99.53	
				CDMA								
				4G	100.00		100.00		100.00		99.74	
	3	Successful data transmission upload attempts	>75%	All Generations		98.89					100	
				2G (GSM)	100.00		100.00				98.52	
				3G	100.00						99.38	
				CDMA								
				4G	100.00		100.00		100.00		99.74	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						60(Photon Whiz)	
					Plan 2							
				2G	Plan 1	98.00	178.00	101(Open plan)			58(EDGE)	74.33
					Plan 2							
				3G	Plan 1	1585.00	10500.00					2206.00
					Plan 2							
				4G	Plans	7145.00		2980(Open plan)		5853.13		3460.67
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						77(EDGE)	
					Plan 2							
				2G	Plan 1	135.00	208.00	153(Open plan)			146(EDGE)	117.00
					Plan 2							
				3G	Plan 1	2814.00	14683.00					5291.00
					Plan 2							
					Plan 3							
				4G	Plans	8547.00		9921(Open plan)		24243.15		6536.33
	6	Latency	Data <250ms	All Generations			118.00				152.5	
				2G (GSM)		233.00		196.00				185.67
				3G		46.00						32.00
				CDMA								
				4G		27.00		112.00		59.39		37.67
7	PDP Context Activation Success Rate	≥95%	All Generations			95.51				98.4		
			2G (GSM)		99.02		97.56				99.88	
			3G		99.52						98.21	
			CDMA									
			4G		99.44		99.73		99.75		99.97	
8	Drop rate :	≤5%	All Generations							1.73		
			2G (GSM)		2.84		1.12				4.80	
			3G		0.66						0.78	
			3G(OSS)									
			CDMA									
			4G		0.59		0.33		0.44		0.37	

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