

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

Report for quarter ending: December 2017													Compliance Status					
Sl. No.	Parameters	Benchmark	Generations		Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone					
Andhra Pradesh	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	99.92	99.00		99.80		99.99	98	100	99.96					
				2G (GSM)			98.00											
				3G			98.00											
	2	Successful data transmission download	>80%	All Generations								100	100					
				2G (GSM)	100.00	100.00	95.93	100.00					100.00					
				3G	100.00	100.00	93.59	100.00										
				4G						100.00								
	3	Successful data transmission upload	>75%	All Generations								100	100					
				2G (GSM)		100.00	94.30	100.00					100.00					
				3G		100.00	95.75	100.00										
				4G						100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							73(Photon Whiz)						
					Plan 2							1941(Photon Plus)						
				2G	Plan 1	97.16	126.61	36.45(Data plan-96,1499,2799,3999)	136(Open plan)			133(EDGE)	92.1	141.92(Rs 125 plan with 1GB free)				
				3G	Plan 1	2648.29	1694.68	711.08(Data plan-96,1499,2799,3999)	2404(Open plan)									
				4G	Plans						5126.43			1363.53				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							75(Photon Whiz)						
					Plan 2							2114(Photon Plus)						
				2G	Plan 1	185.84	172.20	131.06(Data plan-96,1499,2799,3999)	141(Open plan)			137(EDGE)	161.5	182.19(Rs 125 plan with 1GB free)				
				3G	Plan 1	4203.32	2511.04	2822.31(Data plan-96,1499,2799,3999)	3755(Open plan)									
				4G	Plans						21499.36			6503.26				
	6	Latency	<250ms	All Generations								100.1	219.4					
				2G (GSM)	101.10	123.00	198.14	133.00						116.33				
				3G	19.50	43.00	78.27	27.00										
4G									77.81									
7	PDP Context Activation Success Rate	≥95%	All Generations								98.8	99.2						
			2G (GSM)	97.32	99.99	99.96	99.89						99.37					
			3G	97.32	99.98	99.96	97.91											
			4G						99.79									
8	Drop rate :	≤5%	All Generations								0.5	0.43						
			2G (GSM)	1.23	2.20	1.12	0.91						3.08					
			3G	0.50	0.54	1.73	0.19											
			4G						0.45									

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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Assam	1	Service Activation / Provisionin	Within 4 hrs with 95%	All Generations	99.69	99.00		99.98		99.96		99.84	
				2G (GSM)			100.00						
				3G			100.00						
	2	Successful data transmission download	>80%	All Generations									
				2G (GSM)	100.00	100.00	98.60	100.00			100.00		
				3G	100.00	100.00	98.60			100.00			
	3	Successful data transmission upload	>75%	All Generations									
				2G (GSM)	100.00	100.00	97.60	100.00			100.00		
				3G	100.00	100.00	97.60			100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to	CDMA Plan 1									
				2G Plan 1	111.18	115.15	78.00	73(Open plan)			129.82(Pack@699)		
				3G Plan 1	1891.13	2364.45	1245.00				3116.86		
				4G Plans					3674.93				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1									
				2G Plan 1	193.51	213.35	132.00	143(Open plan)			146.91(Pack@699)		
				3G Plan 1	3640.05	3546.23	2885.00						
				4G Plans					17650.28				
	6	Latency	Data <250ms	All Generations									
				2G (GSM)	108.00	229.00	254.50	99.00			186.33		
				3G	47.43	36.90	164.80				64.67		
				CDMA									
	7	PDP Context Activation Success Rate	≥95%	All Generations									
				2G (GSM)	99.12	99.01	98.30	99.94			99.88		
				3G	99.12	99.92	97.90				97.21		
CDMA													
8	Drop rate :	≤5%	All Generations										
			2G (GSM)	1.17	2.53		0.17			2.42			
			3G	0.66	0.72	1.20				0.55			
			4G					0.38					

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Sl. No.	Parameters	Benchmarks	Generations		Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone						
			CDMA	Plan															
Bihar and Jharkhand	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations		99.93	99.00		99.94		100.00	100	100	99.98					
				2G (GSM)				100.00											
				3G				100.00											
	2	Successful data transmission download	>80%	All Generations								100							
				2G (GSM)		100.00	100.00		100.00				100	100.00					
				3G		100.00	100.00		100.00										
				4G						100.00									
	3	Successful data transmission upload	>75%	All Generations								100							
				2G (GSM)		100.00	100.00		100.00				100	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														
					Plan 2														
				2G	Plan 1		121.45	33.64	56.6(2G Postpaid)	88(Open plan)			104(EDGE)	111.7	145(VML+VFL_3GB_30d_2G_2G RC 199Y_2G)				
					Plan 2				51.9(Prepaid 2G Data)										
				3G	Plan 1		2001.21	2884.10	699.5(3G Postpaid data plans)	1992(Open plan)									
					Plan 2				699.5(3G Prepaid data plan)										
				4G	Plans						4497.15		1518.2767						
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1														
					Plan 2														
			2G	Plan 1		167.69	132.93	106(2G Postpaid data plans)	149(Open plan)			128(EDGE)	173.9	172(VML+VFL_3GB_30d_2G_2G RC 199Y_2G)					
				Plan 2				106(Prepaid 2G data)											
			3G	Plan 1		2890.34	2740.42	1727.4(3G postpaid data plan)	3398(Open plan)										
				Plan 2				1727.4(3G prepaid data plan)											
			4G	Plans						20936.69		2481.28							
6	Latency	Data <250ms	All Generations								87.18	205.9							
			2G (GSM)		92.49	143.00		227.10	232.00				120.00						
			3G		29.20	102.00		127.50	112.00										
			4G							74.94									
7	PDP Context Activation Success Rate	≥95%	All Generations								98.35	95.7							
			2G (GSM)		99.15	99.85		98.20	99.37				99.44						
			3G		99.15	99.43		96.60	95.76										
			4G							99.81									
8	Drop rate :	≤5%	All Generations								0.46	0.47							
			2G (GSM)		1.22	3.77			1.76				1.15						
			3G		0.66	0.16		0.90	0.22										
			4G							0.43									

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone
Chennai	1	Service Activation	Within 4 hrs with	All Generations			100.00					
				3G								
	2	Successful data transmission download attempts	>80%	All Generations								
				2G (GSM)			95.75					
				3G			97.25					
				CDMA								
				4G								
	3	Successful data transmission upload	>75%	All Generations								
				2G (GSM)			96.93					
				3G			97.01					
				CDMA								
	4	Minimum download speed (Kbps)	To be measured for each Plan and	CDMA Plan 1								
				2G Plan 1			64.00					
				3G Plan 1			601.00					
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1								
				Plan 2								
				Plan 3								
				2G Plan 1			147.00					
				3G Plan 1			2520.00					
	6	Latency	Data <250ms	All Generations								
			2G (GSM)			218.00						
			3G			87.00						
			CDMA									
7	PDP Context Activation Success Rate	≥95%	All Generations									
			2G (GSM)			98.12						
			3G			98.52						
			CDMA									
8	Drop rate :	≤5%	All Generations									
			2G (GSM)			1.66						
			3G			1.69						
			CDMA									

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Delhi	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	98.85	99.00		98.99	99.07	99.96	97	99.73	
				3G									
				CDMA									
	2	Successful data transmissio n download attempts	>80%	All Generations							100		
				2G (GSM)	100.00	100.00		100.00	94.13				99.20
				3G		100.00		100.00	98.36				98.95
				CDMA									
				4G						100.00			
	3	Successful data transmissio n upload attempts	>75%	All Generations							100		
				2G (GSM)	100.00	100.00		100.00	89.89				99.18
				3G		100.00		100.00	96.75				99.16
				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							1501(Photon Plus)	
					Plan 3							2009(Photon Max)	
				2G	Plan 1	89.39	91.86		73(Open plan)	90.04			79.17(Rs 125 rental plan)
				3G	Plan 1		1614.76		1297(open plan)	688.48			1096.67(Rs 250 rental plan with 1GB free)
				4G	Plans					4906.58			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							81(Photon Whiz)	
					Plan 2							2002(Photon Plus)	
					Plan 3							3169(Photon Max)	
				2G	Plan 1				154(open plan)	97.07			177.48(Rs 125 rental plan with 1GB free)
				3G	Plan 1	136.99	104.13		4938(open plan)	905.97			2419.67(Rs 250 rental plan with 1GB free)
				4G	Plans		2876.00				26623.19		
	6	Latency	Data <250ms	All Generations					144.33		65.3		
				2G (GSM)	105.62	228.00		125.00					217.33
				3G		75.20		52.00					75.00
			CDMA										
			4G						57.37				
7	PDP Context Activation Success Rate	≥95%	All Generations					98.43		96.54333			
			2G (GSM)	97.19	99.49		99.76					99.28	
			3G		100.00		99.05					99.48	
			CDMA										
			4G						99.81				
8	Drop rate :	≤5%	All Generations					3.08		0.89815			
			2G (GSM)	0.75	1.53		0.16					1.87	
			3G		0.48		0.71					1.57	
			CDMA										
			4G						0.37				

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone		
Gujarat	1	Service Activation / Provisionin	Within 4 hrs with 95%	All Generations	100.00	99.00	98.00	99.58		99.93	90	100	99.99	
				2G (GSM)										
					CDMA									
	2	Successful data transmissio n download attempts	>80%	All Generations			99.00				100	100		
				2G (GSM)	96.63	100.00		100.00					99.57	
				3G		100.00		100.00					100.00	
				CDMA										
				4G						100.00				
	3	Successful data transmissio n upload attempts	>75%	All Generations			97.30				100	100		
				2G (GSM)	99.18	100.00		100.00					98.79	
				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									
					Plan 2							76(Photon Whiz)		
					Plan 3							1240(Photon Plus)		
				2G	Plan 1	119.53	68.22		93(open plan)			85(EDGE)	109.9	82.67(2G MI199)
				3G	Plan 1		802.67	1408 Kbps	2647(open plan)					2481.97(3G MI850)
					Plan 2									
					Plan 3							2044(Photon 3G)		
				4G	Plans					4524.67			2734.08	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
					Plan 2							85(Photon Whiz)		
					Plan 3							2089(Photon Plus)		
				2G	Plan 1	163.83	125.63		166(open plan)			136(EDGE)	165.4	132.38(2G MI199)
				3G	Plan 1		2248.90	1900 Kbps	5034(open plan)					5199.64(3G MI850)
					Plan 2									
					Plan 3							3325(Photon 3G)		
			4G	Plans					27987.87			3290.45		
6	Latency	Data <250ms	All Generations			93.00				62.9	134.4			
			2G (GSM)	99.77	235.00		104.00						140.00	
			3G		165.00		53.00						27.00	
			CDMA											
			4G						61.01					
7	PDP Context Activation Success Rate	≥95%	All Generations			97.1				98.8	99.7			
			2G (GSM)	98.56	99.99		99.95						99.84	
			3G		99.35		99.89						99.37	
			CDMA											
			4G						99.74					
8	Drop rate :	≤5%	All Generations			1.2				1.3	0.81			
			2G (GSM)	0.90	4.76		0.32						4.15	
			3G		0.08		0.75						0.50	
			CDMA											
			4G						0.48					

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HP	1	Service Activation /Provisioning success	Within 4 hrs with 95% success	All Generations	98.62	100.00	100.00	99.26		99.99	100	99.99		
				2G (GSM)										
				3G										
	2	Successful data transmission download	>80%	All Generations			90.00				100			
				2G (GSM)	100.00	100.00		100.00				100.00		
				3G		100.00		100.00						
				4G						100.00				
	3	Successful data transmission upload	>75%	All Generations			89.00				100			
				2G (GSM)	100.00	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							60(Photon Whiz)		
					Plan 2							898(Photon Plus)		
				2G	Plan 1	92.95	102.00	76.00	152(open plan)			65(EDGE)	138.86(Talk invitation 50)	
					Plan 2									
				3G	Plan 1		1935.36	889.00	1988(open plan)					
					Plan 2									
					Plan 3									
				4G	Plans							4103.11		
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
	Plan 2											1325(Photon Plus)		
	2G	Plan 1	149.34				169.00	101.00	165(open plan)			93(EDGE)	170.46(Talk invitation 50)	
		Plan 2												
	3G	Plan 1					5304.32	1226.00	4256(open plan)					
		Plan 2												
	4G	Plans							22973.46					
	6	Latency	Data <250ms	All Generations			91.00				133.2			
2G (GSM)				113.17	205.00		204.00				195.67			
3G					172.00		167.00							
4G									53.67					
7	PDP Context Activation Success Rate	≥95%	All Generations			99.10				98.28				
			2G (GSM)	99.82	99.76		100.00				99.73			
			3G		100.00		100.00							
			4G						99.53					
8	Drop rate :	≤5%	All Generations			0.90				0.86				
			2G (GSM)	0.79	1.36		1.27				1.99			
			3G		0.84		0.99							
			4G						0.37					

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Haryana	1	Service Activation	Within 4 hrs with	All Generations	100.00	100.00	97.00	99.15		100.00	99		99.92	
	2	Successful data transmission download	>80%	All Generations			87.00				100			
				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	>75%	All Generations			86.00				100			
				2G (GSM)	100.00	100.00		100.00					100.00	
				3G		100.00		99.68					100.00	
				4G						100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							32.74(Photon Whiz)		
					Plan 2							1151.80(Photon Plus)		
				2G	Plan 1	145.81	165.00	79.67	146(open plan)			78.16(EDGE)		125.93(plan-198Rs/2GB)
				3G	Plan 1		1536.00	932.67	2755(open plan)			1747.17(Photon 3G)		3875.90(plan-198Rs/2GB)
					Plan 2							2597.29(Photon 3G)		
					Plan 3							3371.17(Photon3 G+)		
				4G	Plans						7509.73			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							63.76(Photon Whiz)		
					Plan 2							1580.55(Photon Plus)		
				2G	Plan 1	1888.69	172.00	105.33	179(open plan)			101		181.84(plan-198Rs/2GB)
				3G	Plan 1		3481.60	1703.67	5054(open plan)			2663.45(Photon 3G)		7333.96(plan-198Rs/2GB)
					Plan 2							3374.43(Photon 3G)		
					Plan 3							4204.16(Photon3 G+)		
				4G	Plans						31853.36			
	6	Latency	Data <250ms	All Generations				113.33				68.5		
			2G (GSM)	112.89	208.00			176.00					98.45	
			3G		74.00			59.00					17.17	
			4G						56.97					
7	PDP Context Activation Success Rate	≥95%	All Generations				96.01				98.8			
			2G (GSM)	99.75	99.96			99.92					99.69	
			3G		100.00			99.14					98.78	
			4G						99.53					
8	Drop rate :	≤5%	All Generations				4.24				1.2			
			2G (GSM)	0.30	0.81			1.78					4.24	
			3G		0.17			1.63					1.02	
			4G						0.48					

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Jammu and Kashmir	1	Service Activation	Within 4 hrs with	All Generations	99.57	100.00	96.00	99.18		97.40		99.97	
	2	Successful data transmission download	>80%	All Generations			93.00						
				2G (GSM)	100.00	100.00		100.00				98.81	
				3G	100.00	100.00		100.00					
				4G					100.00				
	3	Successful data transmission upload	>75%	All Generations			86.00						
				2G (GSM)	100.00	100.00		100.00				98.15	
				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	171.48	167.38	12.00	153(open plan)					136.33(plan-99_1GB)
				3G Plan 1	3138.25	3174.40	293.00	2483(open plan)					
				4G Plans					3832.61				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1									
				2G Plan 1	216.29	215.90	20.00	167(open plan)					158.23(plan-99_1GB)
				3G Plan 1	3366.65	4608.00	394.00	4420(open plan)					
				4G Plans					19905.02				
	6	Latency	Data <250ms	All Generations			127.00						
				2G (GSM)	105.00	201.00		208.00					132.33
				3G	37.87	90.00		167.00					
			4G					58.56					
7	PDP Context Activation Success Rate	≥95%	All Generations			97.00							
			2G (GSM)	98.80	100.00		100.00					99.98	
			3G	98.80	100.00		100.00						
			4G					99.57					
8	Drop rate :	≤5%	All Generations			1.50							
			2G (GSM)	1.04	1.93		0.30					1.63	
			3G	1.60	0.50		1.19						
			4G					0.36					

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Kolkata	1	Service Activation	Within 4 hrs with	All Generations	99.98	99.00		99.50		100.00	80	99.97	
	2	Successful data transmission download attempts	>80%	All Generations			96.33				100		
				2G (GSM)	100.00	100.00		100.00					99.79
				3G	100.00	100.00		100.00					100.00
				CDMA									
				4G						100.00			
	3	Successful data transmission upload attempts	>75%	All Generations			95.00				100		
				2G (GSM)	100.00	100.00		100.00					99.91
				3G	100.00	100.00		100.00					99.87
				CDMA									
				4G						100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						57(Photon Whiz)		
					Plan 2						787(Photon Plus)		
				2G	Plan 1	113.12	159.00	43.00	133(open plan)		72(EDGE)		163.84(postpaid PayG)
					Plan 2								
				3G	Plan 1	1325.89	7096.24	645.00	2715(open plan)				3154.23(postpaid PayG)
				4G	Plans					6509.34			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						79(Photon Whiz)		
					Plan 2						1205(Photon Plus)		
				2G	Plan 1	213.05	235.60	78.33	165(open plan)		156(EDGE)		204.08(postpaid PayG)
				3G	Plan 1	3533.17	7156.99	1773.33	3844(open plan)				7214.67(postpaid PayG Unlimited)
				4G	Plans					29608.14			
	6	Latency	Data <250ms	All Generations			106.66				121.83		
				2G (GSM)	147.89	172.00		128.00					136.33
				3G	32.36	45.00		63.00					55.33
				CDMA									
				4G						5607.00			
	7	PDP Context Activation Success Rate	≥95%	All Generations							98.36		
			2G (GSM)	98.11	99.85	99.69	99.99					99.91	
			3G	98.11	99.57	99.96	99.06					97.12	
			CDMA										
			4G						99.85				
8	Drop rate :	≤5%	All Generations							1.37			
			2G (GSM)	0.81	2.23		1.23					3.25	
			GSM (OSS)										
			3G	0.80	0.09		1.49					0.51	
			CDMA										
			4G						0.32				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017		Compliance Status											
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Kerala	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	99.21	99.99		99.77		99.98	100	99.46	
				2G (GSM)									
				CDMA									
	2	Successful data transmission download attempts	>80%	All Generations			96.33				100		
				2G (GSM)	93.74	100.00		100.00				100.00	
				3G	93.74	100.00		100.00				100.00	
				CDMA									
				4G					100.00				
	3	Successful data transmission upload attempts	>75%	All Generations			95.75				100		
				2G (GSM)	91.79	100.00		100.00				100.00	
				3G	91.79	100.00		100.00				100.00	
				CDMA									
				4G					100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1								
					Plan 2							62(Photon whiz)	
					Plan 3							1505(Photon Plus)	
												1719(Photon Max)	
				2G	Plan 1	74.24	91.80	37.18	122(open plan)			65(EDGE)	153.67(3GB VMC 199plan)
				3G	Plan 1	2968.37	1963.52	454.98	2374(open plan)				2276.99
					Plan 2								
					Plan 3							1328(Photon 3G)	
												2575(Photon3G+ )	
				4G	Plans					8208.31			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					Plan 2							79(Photon Whiz)	
					Plan 3							1789(Photon Plus)	
												2037(Photon Max)	
			2G	Plan 1	173.85	144.00	72.54	124(open plan)			126(EDGE)	174.26(3GB VMC 199plan)	
			3G	Plan 1	3297.09	3732.56	1135.70	3399(open plan)				3616.77	
				Plan 2									
				Plan 3							3988(Photon 3G)		
											5679(Photon3G+ )		
			4G	Plans					25791.64				
6	Latency	Data <250ms	All Generations			142.09					57.1		
			2G (GSM)	69.65	218.00		122.00					62.00	
			3G	34.12	99.00		44.00					27.00	
			CDMA										
			4G						57.89				
7	PDP Context Activation Success Rate	≥95%	All Generations			97.38					98.9		
			2G (GSM)	99.14	100.00		98.80					99.38	
			3G	99.14	99.15		96.57					93.46	
			CDMA										
			4G						99.84				
8	Drop rate :	≤5%	All Generations			0.80					0.7		
			2G (GSM)	2.10	1.10		1.43					3.17	
			3G	1.55	0.22		1.10					1.20	
			CDMA										
			4G						0.52				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017													
Compliance Status													
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Karnataka	1	Service Activation / Provisionin	Within 4 hrs with 95%	All Generations	99.29	99.99	100.00	95.98		99.99	95	99.96	
				2G (GSM)									
				CDMA									
	2	Successful data transmission download attempts	>80%	All Generations							100		
				2G (GSM)	100.00	100.00	100.00	100.00					100.00
				3G	100.00	100.00	99.23						100.00
				CDMA									
				4G						100.00			
	3	Successful data transmission upload attempts	>75%	All Generations							100		
				2G (GSM)	100.00	100.00	100.00	100.00					100.00
				3G	100.00	100.00	100.00						100.00
				CDMA									
				4G						100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA									
				Plan 1							55.74(Photon Whiz)		
				Plan 2							1155.41(Photon Plus)		
				Plan 3							945.73(Photon Max)		
				2G									90.66(2GB unlimited@MR P199)
				Plan 1	110.57	118.65	82.37	154(open plan)			91.59(EDGE)		
				3G									5730.12
				Plan 1	2398.78	1690.54	731.18						
				Plan 2							3120(Photon 3G)		
				Plan 3							5696(Photon3G+ )		
				4G						3636.76			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA									
				Plan 1							76.80(Photon Whiz)		
				Plan 2							1693.70(Photon Plus)		
				Plan 3							1644.37(Photon Max)		
			2G									105.86(2GB unlimited@MR P199)	
			Plan 1	171.56	181.14	101.73	167(open plan)			131.10(EDGE)			
			3G									9066.54	
			Plan 1	5283.16	3645.23	3098.22							
			Plan 2							4698(Photon 3G)			
			Plan 3							8042(Photon3G+ )			
			4G						21734.19				
6	Latency	Data <250ms	All Generations			140.35				65.9			
			2G (GSM)	86.00	105.00		140.00					156.26	
			3G	36.00	73.50							37.78	
			CDMA										
			4G						75.85				
7	PDP Context Activation Success Rate	≥95%	All Generations			40.48				98.9			
			2G (GSM)	99.35	99.71		99.71					99.83	
			3G	99.35	99.85							89.41	
			CDMA										
			4G						99.77				
8	Drop rate :	≤5%	All Generations			0.57				0.4			
			2G (GSM)	1.36	2.57		0.43					2.14	

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
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Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services												
Report for quarter ending: December 2017				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone
			3G	0.74	0.48							0.26
			CDMA									
			4G						0.57			

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017		Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations		Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Maharashtra	1	Service Activation	Within 4 hrs with	All Generations	99.92	97.00	98.00	98.66		99.99	100	100	100.00	
	2	Successful data transmission download	>80%	All Generations			92.00				100	100		
				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	>75%	All Generations			90.00				100	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							68.01(Photon whiz)		
					Plan 2							881.4(Photon Plus)		
				2G	Plan 1	113.33	80.43	96.00	100(open plan)			60.6(EDGE)	89.3	135.53(Rs 599 unlimited 2G data plan)
				3G	Plan 1		1018.04	2900.00	2666(open plan)					2448.35(Unlimited 2G&3G data plan)
					Plan 2						5147.78(Photon 3G)			
					Plan 3						2755.86(Photon3 G+)			
				4G	Plans					4792.56			881.94333	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							79.71(Photon Whiz)		
					Plan 2							1513.83(Photon Plus)		
				2G	Plan 1	135.98	143.14	112.00	154(open plan)			129.6315(EDGE)	185	215.03(Rs 599 unlimited 2G data plan)
				3G	Plan 1		4171.83	2850.00	4738(open plan)					6423.96(Unlimited 2G&3G data plan)
					Plan 2						7776.90(Photon 3G)			
					Plan 3						4386.53(Photon3 G+)			
				4G	Plans					26903.63			1209.28	
	6	Latency	Data <250ms	All Generations				125.00				68.2	217.8	
			2G (GSM)	108.43	236.00			135.00					119.47	
			3G		55.40			128.00					38.22	
			4G						79.60					
7	PDP Context Activation Success Rate	≥95%	All Generations				96.33				99.6	99.7		
			2G (GSM)	98.66	99.98			99.92					99.81	
			3G		100.00			99.99					99.32	
			4G						99.75					
8	Drop rate :	≤5%	All Generations				2.50				1.1	0.72		
			2G (GSM)	0.86	0.00			1.69					0.67	
			3G		0.00			1.05					0.27	
			4G						0.52					

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Madhya Pradesh	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	100.00	99.00		99.80		99.99	100	99.99	
				2G (GSM)			98.20						
				3G			98.20						
	2	Successful data transmission download	>80%	All Generations							100		
				2G (GSM)	99.41	98.75	100.00	100.00					100.00
				3G		99.06	100.00	100.00					
				4G						100.00			
	3	Successful data transmission upload	>75%	All Generations							100		
				2G (GSM)	99.41	98.61	100.00	100.00					100.00
				3G		98.83	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						55(Photon Whiz)		
					Plan 2						681(Photon Plus)		
				2G	Plan 1	103.57	130.65		76(open plan)		68(EDGE)		77.49(MBB_C_199_30d_D2GB_FU_2G)
				3G	Plan 1		1027.38	1498(3G postpaid data plans-FMC-50)	1639(open plan)				
					Plan 2			1257(3G postpaid data plans FMC-225)			1259(Photon 3G)		
					Plan 3			1479(3G postpaid data plans FMC-501)			11853(Photon3G+)		
								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)						
							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					3897.02				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	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						78(Photon Whiz)					
					Plan 2						1247(Photon Plus)					
				2G	Plan 1	168.96	231.42		146(open plan)			105(EDGE)		176.53(MBB_C_V_199_30d_D_2GB_FU_2G)		
					3G	Plan 1		1510.97	2369(3G postpaid data plans-FMC-75)	3757(open plan)						
				Plan 2				2546(3G postpaid data plans FMC-225)				2477(Photon 3G)				
				Plan 3				1948(3G postpaid data plans FMC-501)				5856(Photon3G+)				
								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)									
							2246(3G prepaid data recharge vouchers-561)									
							4G Plans						20743.49			
				6	Latency	Data <250ms	All Generations							70.5		
							2G (GSM)	99.36	119.00	224.60	105.00				136.95	
							3G		44.00	111.90	88.00					
4G									83.05							
7	PDP Context Activation Success Rate	≥95%	All Generations							98.8						
			2G (GSM)	97.94	99.97	96.70	99.92				99.72					
			3G		99.16	98.90	98.60									
			4G						99.77							
8	Drop rate :	≤5%	All Generations							1.6						
			2G (GSM)	3.90	4.69		0.44				2.23					
			3G		0.05	1.10	0.79									
			4G						0.40							

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Mumbai	1	Service Activation	Within 4 hrs with	All Generations	99.86	98.00		98.56	98.78	99.89	98	99.93	
	2	Successful data transmission download	>80%	All Generations							100		
				2G (GSM)	100.00	100.00		100.00	99.89				100.00
				3G		100.00			100.00				100.00
				4G						100.00			
	3	Successful data transmission upload	>75%	All Generations							100		
				2G (GSM)	100.00	100.00		100.00	100.00				100.00
				3G		100.00			99.88				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	95.50	164.70		95(open plan)	51.31		50(Photon Whiz)	
				3G	Plan 1		2932.40					573(Photon Plus)	
				4G	Plans								129.81(VMC699UL)
													3732.62(MI8GB)
										3630.15			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					Plan 2								
				2G	Plan 1	138.74	186.93		168(open plan)	79.51		83(Photon Whiz)	
				3G	Plan 1		3376.10					911(Photon Plus)	
				4G	Plans								172.06(VMC699UL)
													5416.50(MI8GB)
										23799.32			
	6	Latency	Data <250ms	All Generations							90.21		
				2G (GSM)	137.57	93.00		110.00					98.76
				3G		24.00			177.55				15.92
				4G						57.14			
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.89		98.25		
			2G (GSM)	99.16	99.88		98.70					99.80	
			3G		99.83							98.51	
			4G						99.75				
8	Drop rate :	≤5%	All Generations					1.86		0.58			
			2G (GSM)	0.77	3.97		0.24					3.78	
			3G		0.09							0.60	
			4G						0.34				

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
North East	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	99.88	99.00		99.90		99.99		99.99	
				2G (GSM)			100.00						
				3G			100.00						
	2	Successful data transmission download	>80%	All Generations									
				2G (GSM)	100.00	100.00	100.00	100.00					100.00
				3G	100.00	100.00	100.00						100.00
				4G						100.00			
	3	Successful data transmission upload	>75%	All Generations									
				2G (GSM)	100.00	100.00	100.00	100.00					100.00
				3G	100.00	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	109.75	112.50	73.72	76(open plan)					128.26(Pack@699)
				3G Plan 1	1534.80	1798.45	1629.07						2856.11
				Plan 2									
				Plan 3									
				4G Plans						5765.76			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1									
				2G Plan 1	169.81	189.25	78.88	135(open plan)					145.33(Pack@699)
				3G Plan 1	3375.71	4079.53	1637.22						3408.14
				Plan 2									
				Plan 3									
				4G Plans						29840.31			
	6	Latency	Data <250ms	All Generations									
			2G (GSM)	84.40	230.00	242.00	105.00					184.00	
			3G	42.55	36.80	220.00						63.00	
			4G						54.74				
7	PDP Context Activation Success Rate	≥95%	All Generations										
			2G (GSM)	99.33	99.01	122.48	99.88					99.88	
			3G	99.33	99.94	123.08						97.21	
			4G						99.81				
8	Drop rate :	≤5%	All Generations										
			2G (GSM)	0.85	2.18		0.18					4.19	
			3G	1.52	1.06	4.83						1.00	
			4G						0.52				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
				North East - II	1	Service Activation	Within 4 hrs with	All Generations			100.00		
			3G										
2	Successful data	>80%	All Generations				98.00						
			2G (GSM)										
3	Successful data	>75%	All Generations				97.00						
			2G (GSM)										
4	Minimum download speed	To be measured for each	CDMA Plan 1										
			2G Plan 1										
			3G Plan 1			379 Kbps							
5	Average Throughput for Packet	>75% of the subscribed speed.	CDMA Plan 1										
			2G Plan 1										
			3G Plan 1			968 kbps							
6	Latency	Data <250ms	All Generations			114 ms							
			2G (GSM)										
7	PDP Context Activation	≥95%	All Generations			98.08							
			2G (GSM)										
8	Drop rate :	≤5%	All Generations			0.58							
			2G (GSM)										

Note 1: The services of the M/s MTS stopped from 31st October, 2017.

Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017													Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone					
Orissa	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	99.93	99.00		97.61		99.98	100		99.98					
				2G (GSM)			100.00											
				3G			100.00											
	2	Successful data transmissio n download	>80%	All Generations							100							
				2G (GSM)	100.00	100.00	100.00	100.00					100.00					
				3G	100.00	100.00	100.00						100.00					
				4G						100.00								
	3	Successful data transmissio n upload	>75%	All Generations							100							
				2G (GSM)	100.00	100.00	100.00	100.00					100.00					
				3G	100.00	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							63(Photon Whiz)						
					Plan 2							1704(Photon Plus)						
				2G	Plan 1	146.90	85.09	89.00	58(open plan)			112(EDGE)		163.77(plan-99_1GB)				
				3G	Plan 1	2943.92	1861.97	1253.00						3802.78				
				4G	Plans					4576.53								
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							69(Photon Whiz)						
					Plan 2							1828(Photon Plus)						
				2G	Plan 1	222.90	154.07	158.00	144(open plan)			127(EDGE)		180.74(plan-99_1GB)				
				3G	Plan 1	4761.37	3346.45	5332.00						4005.85				
				4G	Plans					30511.50								
	6	Latency	Data <250ms	All Generations								100.57						
				2G (GSM)	84.00	164.00	306.40	69.00						106.00				
				3G	40.62	57.50	86.10							57.33				
				4G						58.75								
	7	PDP Context Activation Success Rate	≥95%	All Generations								98.36						
				2G (GSM)	99.37	99.21	98.97	99.23						99.91				
				3G	99.37	99.99	98.90							97.72				
			4G						99.67									
8	Drop rate :	≤5%	All Generations								0.28							
			2G (GSM)	1.30	3.72	1.10	1.68						2.33					
			3G	0.75	0.10								0.44					
			4G						0.46									

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Punjab	1	Service Activation	Within 4 hrs with	All Generations	99.91	99.00	100.00	98.94		99.99	100	99.97	
	2	Successful data transmission download	>80%	All Generations			96.69			100		100.00	
				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	>75%	All Generations			95.39				100		
				2G (GSM)	99.78	100.00		100.00					100.00
				3G	99.78	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						21.13		
					Plan 2						201.87		
					Plan 3						2494.64		
				2G	Plan 1	113.79	80.60		95(open plan)		93.22		146.64(Unlimited@199)
				3G	Plan 1	3119.55	1331.20	1005.67	1683(open plan)		1155.08		
					Plan 2						2920.13		
					Plan 3						7421.95		
				4G	Plans					3655.39			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						87.42		
					Plan 2						1259.12		
					Plan 3						3002.39		
				2G	Plan 1	144.74	145.62		155(open plan)		115.64		187.33(Unlimited@199)
				3G	Plan 1	3618.10	2447.36	1360.52	4230(open plan)		2137.39		
					Plan 2						3704.24		
					Plan 3						8458.01		
				4G	Plans					19783.59			
	6	Latency	Data <250ms	All Generations							58.6		
				2G (GSM)	119.93	202.00		227.00					95.82
				3G	26.55	113.00	148.81	49.00					
			4G						55.09				
7	PDP Context Activation Success Rate	≥95%	All Generations			97.40				98.8			
			2G (GSM)	98.73	99.93		100.00					99.73	
			3G	98.73	99.99		100.00						
			4G						99.63				
8	Drop rate :	≤5%	All Generations			1.11				1.3			
			2G (GSM)	0.59	0.33		1.60					2.87	
			3G	1.48	0.15		0.33						
			4G						0.24				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Rajasthan	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	99.98	98.00		99.90		99.99	100	99.98	
				3G									
				CDMA									
	2	Successful data transmission download attempts	>80%	All Generations			94.02				100		
				2G (GSM)	99.19	100.00		100.00					100.00
				3G		100.00		100.00					100.00
				CDMA									
				4G						100.00			
	3	Successful data transmission upload attempts	>75%	All Generations			94.53				100		
				2G (GSM)	98.67	100.00		100.00					100.00
				3G		100.00		100.00					100.00
				CDMA									
				4G						100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA								70	
				Plan 2								1346	
				2G									
				Plan 1	62.89	158.63		116(open plan)				105	122.14(unlimited GB(VL+VMC)@
				3G		2606.47		2955(open plan)					4372.66
								214.60(Postpaid data plan 50)					
								232.85(postpaid data plan 75)					
							231.30(postpaid data plan 170)						
							223.09(postpaid data plan 225)						
							211.42(postpaid data plan 501)						
							218.76(postpaid data plan 666)						
							220.33(postpaid data plan 901)						
							223.56(postpaid data plan1711)						
							218.17(postpaid data plan 240)						
							214.28(postpaid data plan 340)						
							204.23(prepaid data STV 4)						
							213.24(prepaid data STV 14)						
							202.63(prepaid data STV 31)						
							217.45(prepaid data STV 39)						
							205.74(prepaid data STV 56)						
							209.14(prepaid data STV 78)						
							211.88(prepaid data STV 98)						
							211.60(prepaid data STV 155)						
							217.25(prepaid data STV 198)						

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Rajasthan						234.54(prepaid data STV 291)							
						209.94(prepaid data STV 444)							
						213.48(prepaid data STV 561)							
						211.04(prepaid data STV 821)							
						209.33(prepaid data STV 1949)							
						210.73(prepaid data STV 3099)							
						207.50(prepaid data STV 399)							
						215.14(prepaid data STV 549)							
						217.38(prepaid data STV 629)							
						213.89(prepaid data STV 2399)							
				4G Plans						4408.90			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1							78		
				CDMA Plan 2							1631		
				2G Plan 1	139.82	166.75		161(open plan)			127		183.81(unlimited GB(VL+VMC)@599)
				3G Plan 1									8213.68(Unlimited GB(VL+VMC)@599)
				4G Plans		3083.98	228.74			37137.97			
	6	Latency	Data <250ms	All Generations			97 ms				100.4		
				2G (GSM)	118.43	162.00		101.00					118.00
				3G		70.80		45.00					106.83
				CDMA									
			4G						65.29				
7	PDP Context Activation Success Rate	≥95%	All Generations			100.00				98.2			
			2G (GSM)	99.22	99.97		99.34					99.81	
			3G		100.00		99.18					97.88	
			CDMA										
			4G						99.79				
8	Drop rate :	≤5%	All Generations			0.29				0.95			
			2G (GSM)	0.61	1.65		0.10					4.03	
			3G		0.42		0.17					0.63	
			CDMA										
			4G						0.37				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017			Compliance Status										
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Tamilnadu	1	Service Activation / Provisionin	Within 4 hrs with 95%	All Generations	99.28	99.00	100.00	99.29		99.96	99	99.99	
				2G (GSM)									
				CDMA									
	2	Successful data transmission download attempts	>80%	All Generations							100		
				2G (GSM)	100.00	100.00	98.42	100.00				100.00	
				3G	100.00	100.00	98.80					100.00	
				CDMA									
				4G						100.00			
	3	Successful data transmission upload attempts	>75%	All Generations							100		
				2G (GSM)	100.00	100.00	97.05	100.00				100.00	
				3G	100.00	100.00	98.97					100.00	
				CDMA									
				4G						100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							60(Photon Whiz)	
					Plan 2							682(Photon Plus)	
				2G	Plan 1	145.82	152.79	39.11	87(open plan)			77(EDGE)	108.73(199 unlimited 2GB)
				3G	Plan 1	6180.09	2119.56	870.40					2272.57(650 unlimited 3GB)
				4G	Plans					3571.65			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							75(Photon Whiz)	
					Plan 2							1402(Photon Plus)	
				2G	Plan 1	209.68	221.10	87.49	144(open plan)			120(EDGE)	161.60(199 unlimited 2GB)
				3G	Plan 1	9480.38	6259.68	1905.68					6829.05(650 unlimited 3GB)
				4G	Plans					17563.55			
	6	Latency	Data <250ms	All Generations								99.11	
			2G (GSM)	63.28	224.00	569.21	113.00					122.00	
			3G	20.43	71.60	165.16						34.33	
			CDMA										
			4G						73.85				
7	PDP Context Activation Success Rate	≥95%	All Generations								98.34		
			2G (GSM)	96.94	100.00	99.21	99.85					99.87	
			3G	96.94	100.00	99.50						99.19	
			CDMA										
			4G						99.84				
8	Drop rate :	≤5%	All Generations								0.52		
			2G (GSM)	2.31	1.28	0.13	1.28					3.34	
			3G	0.64	0.23	0.07						0.69	
			CDMA										
			4G						0.35				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017				Compliance Status									
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Uttar Pradesh (East)	1	Service Activation	Within 4 hrs with	All Generations	99.79	100.00	97.50	99.96		99.99	99	100	99.95
	2	Successful data transmission download	>80%	All Generations			88.30			100	100		
				2G (GSM)	100.00	100.00		100.00					99.54
				3G	100.00	100.00		100.00					99.82
				4G					100.00				
	3	Successful data transmission upload	>75%	All Generations			82.00				100	100	
				2G (GSM)	100.00	100.00		100.00					100.00
				3G	100.00	100.00		100.00					33.39
				4G					100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						75.41(Photon Whiz)		
					Plan 2						1140.31(Photon Plus)		
					Plan 3						2098(Photon Max)		
				2G	Plan 1	110.25	100.20	94.00	110(open plan)		96.88(EDGE)	71.2	137.41(Rs 1599 12GB)
				3G	Plan 1				2233(open plan)				5496.79(Rs.15 99 12GB free)
				4G	Plans	2862.13	1751.46	1947.00		5430.66		2115.65	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						78.69(Photon Whiz)		
					Plan 2						1559.12(Photon Plus)		
					Plan 3						2645.64(Photon Max)		
				2G	Plan 1	170.93	259.84	145.00	118(open plan)		124.98(EDGE)	91	196.49(Rs 1599 12GB)
				3G	Plan 1	4590.94	3844.31	2138.00	2964(open plan)				9504.50(Rs.15 99 12GB free)
				4G	Plans					33100.45		2098.5167	
	6	Latency	Data <250ms	All Generations			225.00				69.72	137.4	
				2G (GSM)	81.49	240.00		186.00					172.17
				3G	38.43	220.00		97.00					40.02
			4G						59.95				
7	PDP Context Activation Success Rate	≥95%	All Generations			98.53				97.8	99.1		
			2G (GSM)	99.29	99.94		99.69					99.70	
			3G	99.29	100.00		99.08					99.35	
			4G						99.73				
8	Drop rate :	≤5%	All Generations			3.39				1.23	0.77		
			2G (GSM)	0.77	2.08		1.14					4.57	
			3G	0.63	0.32		1.62					0.35	
			4G						0.49				

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 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017		Compliance Status											
Sl. No.	Parameters	Benchmark s	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
Uttar Pradesh (West)	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	99.94	100.00	97.70	99.76		99.99	98	100	
				2G (GSM)									
				CDMA									
	2	Successful data transmissio n download attempts	>80%	All Generations			94.60				100	100	
				2G (GSM)	97.88	100.00		100.00					
				3G		100.00		100.00					
				CDMA									
				4G					100.00				
	3	Successful data transmissio n upload attempts	>75%	All Generations			91.60				100	100	
				2G (GSM)	96.04	100.00		100.00					
				3G		100.00		100.00					
				CDMA									
				4G					100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1								
					Plan 2						80(Photon Whiz)		
					Plan 3						968(Photon Plus)		
											1700(Photon Max)		
				2G	Plan 1	97.56	93.45	98.00	97(open plan)		74(EDGE)	124.9	
				3G	Plan 1		1367.45	1910.30	2279(open plan)				
					Plan 2								
					Plan 3						2854(Photon 3G)		
											4363(Photon3G+ )		
				4G	Plans					4447.33		1451.5233	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					Plan 2						83(Photon Whiz)		
					Plan 3						1727(Photon Plus)		
											2320(Photon Max)		
				2G	Plan 1	167.54	197.16	126.70	201(opne plan)		117(EDGE)	158.3	
			3G	Plan 1		2432.23	2949.00	5033(open plan)					
				Plan 2									
				Plan 3						3826(Photon 3G)			
										5599(Photon3G+ )			
			4G	Plans					29010.15		2119.0128		
6	Latency	Data <250ms	All Generations			222.30				63.6	123.6		
			2G (GSM)	104.67	182.00		107.00						
			3G		72.00		52.00						
			CDMA										
			4G						66.39				
7	PDP Context Activation Success Rate	≥95%	All Generations			97.40				98.9	99.5		
			2G (GSM)	97.44	95.58		99.88						
			3G		99.95		98.81						
			CDMA										
			4G						99.75				
8	Drop rate :	≤5%	All Generations			2.30				1.5	0.59		
			2G (GSM)	0.84	1.39		1.50						
			3G		0.66		1.80						
			CDMA										
			4G						0.41				

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 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.

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

Report for quarter ending: December 2017			Compliance Status										
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Telenor	Vodafone	
West Bengal	1	Service Activation /Provisionin	Within 4 hrs with 95%	All Generations	99.98	97.00	99.22	99.52		100.00	100		
				3G									
				CDMA									
	2	Successful data transmission download attempts	>80%	All Generations			98.76				100		
				2G (GSM)	100.00	100.00		100.00					
				3G	100.00	100.00							
				CDMA									
				4G						100.00			
	3	Successful data transmission upload attempts	>75%	All Generations			98.90				100		
				2G (GSM)	100.00	100.00		100.00					
				3G	100.00	100.00							
				CDMA									
				4G						100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1								
					Plan 2							64(Photon Whiz)	
				2G	Plan 1	155.87	98.02	163.00	133.00			76(EDGE)	
				3G	Plan 1	1449.75	1651.31	4918.00					
					Plan 2								
				4G	Plans						6063.18		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					Plan 2							79(Photon Whiz)	
				2G	Plan 1	206.53	135.42	202.33	167.00			151(EDGE)	
				3G	Plan 1	3779.21	2881.42	7506.00					
					Plan 2								
					Plan 3								
				4G	Plans						29912.02		
	6	Latency	Data <250ms	All Generations			131.00					146.84	
				2G (GSM)	170.47	230.00		202.00					
			3G	27.57	45.60								
			CDMA										
			4G						70.26				
7	PDP Context Activation Success Rate	≥95%	All Generations			97.68					98.15		
			2G (GSM)	99.34	99.92		99.95						
			3G	99.34	99.92								
			CDMA										
			4G						99.76				
8	Drop rate :	≤5%	All Generations								0.74		
			2G (GSM)	1.41	3.13		1.22						
			3G	2.13	0.52								
			3G(OSS)										
			CDMA										
			4G						0.52				

Note 1: The services of the M/s MTS stopped from 31st October, 2017.  
 Note 2: The services of the RCOM and RTL stopped from 31st January, 2018.