

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.87	96.00		99.90		100.00		99.43	93	100	99.99	
				2G (GSM)			98.00									
				3G			98.00									
	2	Successful data transmission download	>80%	All Generations							100.00		100	100	100.00	
				2G (GSM)	100.00	100.00	97.16	100.00								
				3G	100.00	100.00	95.69	100.00								
				4G								100.00				
	3	Successful data transmission upload	>75%	All Generations									100	100		
				2G (GSM)	100.00	100.00	94.79	100.00			100.00				100.00	
				3G	100.00	100.00	96.49	100.00								
				4G								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									1859(Photon Plus)		
				2G	Plan 1	80.94	173.03	32.03(Data plan-96,1499,2799,3999)	131(Open Plan)		87(RNC_PAY G)			132(EDGE)	96.9	165.68(Rs 125 Plan with 1GB free)
				3G	Plan 1	2384.17	2249.47	732.29(Data plan-96,1499,2799,3999)	2336(Open Plan)							
				4G	Plans								3352.82		1575.04	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									74(Photon Whiz)		
					Plan 2									2039(Photon Plus)		
				2G	Plan 1	186.39	197.12	130.03(Data plan-96,1499,2799,3999)	140(Open Plan)		161(RNC_PAY G)			138(EDGE)	167.3	199.98(Rs 125 Plan with 1GB free)
				3G	Plan 1	3055.43	3644.62	2855.69(Data plan-96,1499,2799,3999)	3719(Open Plan)							
				4G	Plans								13745.64		6639.825	
	6	Latency	Data <250ms	All Generations										102	196.4	
				2G (GSM)	128.46	116.00	205.36	132.00			196.33					106.83
				3G	34.80	41.00	76.87	27.00								
				4G								79.39				
	7	PDP Context Activation Success Rate	≥95%	All Generations										97.88	98.2	
				2G (GSM)	96.26	99.99	99.35	99.80			99.82					99.78
				3G	96.26	98.81	99.60	98.35								
			4G								99.82					
8	Drop rate :	≤5%	All Generations										0.6	0.41		
			2G (GSM)	1.20	1.73	0.67	1.19			1.72					3.06	
			3G	0.48	0.54	0.56	0.75									
			4G								0.55					

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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Assam	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.22	97.00		99.96				99.68			99.99	
				2G (GSM)			100.00									
				3G			100.00					100.00				
	2	Successful data transmission download	>80%	All Generations												
				2G (GSM)	100.00	100.00	98.00	100.00								100.00
				3G	100.00	100.00	98.00					100.00				100.00
				4G								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				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	131.50	112.23	77((Data plan-96,1499,2799,3999)	72(Open Plan)								134.48(Pack @699)
				3G Plan 1	2341.90	2223.80	1230(Data plan-96,1499,2799,3999)					2188.14 (HSD)				3190.12
				Plan 2												
				Plan 3												
				4G Plans								3091.90				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1												
				2G Plan 1	178.72	189.63	125(Data plan-96,1499,2799,3999)	138(Open Plan)								162.23(Pack @699)
				3G Plan 1	3523.63	3891.16	2860(Data plan-96,1499,2799,3999)					3435.94 (HSD)				4319.34
				Plan 2												
				Plan 3												
				4G Plans								17950.85				
	6	Latency	Data <250ms	All Generations												
				2G (GSM)	123.17	231.00	256.90	101.00								182.00
				3G	37.67	36.90	166.50					88.33				63.00
				CDMA												
				4G								87.18				
7	PDP Context Activation Success Rate	≥95%	All Generations													
			2G (GSM)	99.15	95.37	97.90	99.94								99.78	
			3G	99.15	99.96	97.40					100.00				97.42	
			CDMA													
			4G								99.27					
8	Drop rate :	≤5%	All Generations													
			2G (GSM)	1.04	1.60		0.18								1.84	
			3G	0.80	0.98	1.20					0.60				0.56	
			4G								0.48					

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	98.79	97.00		99.92				99.75		99	100.00	
				2G (GSM)			100.00									
				3G			100.00					100.00				
	2	Successful data transmission download	>80%	All Generations										100		
				2G (GSM)	100.00	100.00	100.00	100.00							100.00	
				3G	100.00	100.00	100.00					99.66				
				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	100.00	100.00					93.00				
				4G								100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1											
				2G	Plan 1	129.23	33.64	53.7(2G Postpaid)	83(Open Plan)						113.3	142(VMC+VFL_3G B_30d_2G_2G RC 199 Y 2G)
								51.9(Prepaid 2G Data)								
				3G	Plan 1	1795.90	946.59	619.6(3G Postpaid Data Plans)				2087.32 (HSD)				
					Plan 2			619.6(3G Prepaid Data Plan)								
					Plan 3											
				4G	Plans							4213.32			1618.106	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1											
				2G	Plan 1	177.92	132.93	105.5(2G Postpaid Data Plans)	120(Open Plan)						148.2	168(VMC+VFL_3G B_30d_2G_2G RC 199 Y 2G)
					Plan 2			105.5(Prepaid 2G Data)								
				3G	Plan 1	3102.55	2134.14	1618.6(3G Postpaid data plan)				2701.46 (HSD)				
					Plan 2			1618.6(3G Prepaid data plan)								
					Plan 3											
			4G	Plans							20203.89			2022.696		
6	Latency	Data <250ms	All Generations											173.8		
			2G (GSM)	96.56	133.00	227.30	241.00								125.00	
			3G	38.14	102.00	139.80					37.54					
			4G								98.89					
7	PDP Context Activation Success Rate	≥95%	All Generations											98		
			2G (GSM)	98.05	99.05	98.20	99.75								99.26	
			3G	98.05	99.82	95.10					100.00					
			4G								98.18					
8	Drop rate :	≤5%	All Generations											0.54		
			2G (GSM)	1.16	3.15		1.34								1.76	
			3G	0.66	0.10	0.90					0.65					
			4G								0.63					

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Chennai	1	Service Activation	Within 4 hrs with 95%	All Generations 3G		100.00			95				94			
	2	Successful data transmission download attempts	>80%	All Generations									100			
	2G (GSM)				95.28											
	3G				95.18											
	CDMA 4G						100									
	3	Successful data transmission upload	>75%	All Generations										100		
	2G (GSM)				96.60											
	3G				96.07											
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					866(Mblaze)				81(Photon Whiz)		
	Plan 2								1998(Mblaze ultra)				1636(Photon Plus)			
	Plan 3												2845(Photon Max)			
	2G			Plan 1		71.00										
	3G			Plan 1		2005.00										
	5			Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					1565(Mblaze)				84(Photon whiz)
	Plan 2								2932(Mblaze ultra)				2157(Photon)			
	Plan 3												3721(Photon Max)			
	2G	Plan 1				159.00										
	3G	Plan 1				2599.00										
	6	Latency	Data <250ms	All Generations										64.5		
	2G (GSM)				172.00											
	3G				99.00											
	CDMA						60									
	7	PDP Context Activation Success Rate	≥95%	All Generations										96.26		
	2G (GSM)				98.52											
3G				99.05												
8	Drop rate :	≤5%	All Generations										1.1			
2G (GSM)				2.39												
3G				1.63												
CDMA						1.4										

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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Delhi	1	Service Activation	Within 4 hrs with 95%	All Generations 3G	98.85	98.00		99.93	99.30	95		100.00	98.83	94	99.97		
	2	Successful data transmission download attempts	>80%	All Generations 2G (GSM) 3G CDMA 4G	100.00	100.00		100.00	92.45		99.97	100.00		100	99.57	99.42	
	3	Successful data transmission upload attempts	>75%	All Generations 2G (GSM) 3G CDMA 4G	100.00	99.71		100.00	90.03		100.00	100.00		100	99.63	99.89	
	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 3G Plan 1 4G Plans	81.28	83.51		55(Open Plan)	88.04		75.71(RNC_P AYG)		5488.91	81(Photon Whiz) 1636(Photon Plus) 2845(Photon Max)		90.27(Rs 125 Rental plan with 1GB free) 1107.25(Rs 250 Rental plan with 1GB free)	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1 Plan 2 Plan 3 2G Plan 1 3G Plan 1 4G Plans	134.68	94.09		156(Open Plan)	95.47		151.17(RNC_PAYG)		25327.65	84(Photon whiz) 2157(Photon Max) 3721(Photon Max)		188.44(Rs 125 Rental plan with 1GB free) 2378.57(Rs 250 Rental plan with 1GB free)	
	6	Latency	Data <250ms	All Generations 2G (GSM) 3G CDMA 4G	121.97	212.00		134.00	151.00		126.76	26.03	70.88	64.5		177.11	59.55
	7	PDP Context Activation Success Rate	≥95%	All Generations 2G (GSM) 3G CDMA 4G	94.81	99.98		99.72	96.70		99.32	99.38	99.01	99.03	96.26	99.85	99.89
	8	Drop rate :	≤5%	All Generations 2G (GSM) 3G CDMA 4G	0.68	0.93		0.16	3.32		3.91	0.64	0.52	1.1		1.22	1.24

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Gujarat	1	Service Activation	Within 4 hrs with 95%	All Generations	100.00	96.00	98.00	99.85		99		99.56	98	99	99.98	
				2G (GSM)						100.00						
	2	Successful data transmission download attempts	>80%	All Generations			99.00							100	100	
				2G (GSM)	95.53	100.00		100.00			100.00					99.44
				3G		100.00		100.00								99.82
				CDMA						100						
				4G								100.00				
	3	Successful data transmission upload attempts	>75%	All Generations			96.30							100	100	
				2G (GSM)	99.94	100.00		100.00			100.00					97.80
				3G		100.00		100.00								99.57
				CDMA						100						
				4G								100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					657(Mblaze)				74(Photon Whiz)		
					Plan 2					1504(Mblaze ultra)				1157(Photon Plus)		
					Plan 3									1939(Photon Max)		
				2G	Plan 1	115.91	72.12				51.33(RNC_P AYG)			77(EDGE)	67.6	84.16(2G MI199)
				3G	Plan 1		786.33	1267 kbps		3117(Open Plan)						2400(3G MI850)
					Plan 2									1907(Photon 3G)		
					Plan 3									5457(Photon3G +)		
				4G	Plans								4951.37		2173.269	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					1361(Mblaze)				84(Photon Whiz)		
					Plan 2					3257(Mblaze ultra)				1917(Photon Plus)		
					Plan 3									2285(Photon Max)		
				2G	Plan 1	172.19	157.65				114(RNC_PA YG)			137(EDGE)	125.1	127.84(2G MI199)
				3G	Plan 1		4278.60	1699 kbps		5010(Open Plan)						5627.33(3G MI850)
					Plan 2									3455(Photon 3G)		
					Plan 3									5864(Photon3G +)		
				4G	Plans								27966.72		3120.469	
6	Latency	Data <250ms	All Generations			94ms							58.9	143.4		
			2G (GSM)	97.83	231.00		134.00			206.66					138.33	
			3G		96.00		73.00								27.67	
			CDMA						79							
			4G								83.67					
7	PDP Context Activation Success Rate	≥95%	All Generations			97.5							98.8	99.6		
			2G (GSM)	99.83	100.00		99.95			100.00					99.63	
			3G		98.96		99.77								99.21	
			CDMA						98.65							
			4G								99.30					
8	Drop rate :	≤5%	All Generations			1.3							1.6	0.64		
			2G (GSM)	0.77	4.18		0.24			0.33					2.93	
			3G		0.05		0.83								0.54	
			CDMA						0.1							
			4G								0.62					

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HP	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.25	99.00	100.00	99.87					99.79	100		100.00		
				2G (GSM)														
				3G										100.00				
				CDMA														
	2	Successful data transmission download	>80%	All Generations			92.00							100				
				2G (GSM)	100.00	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				
				2G (GSM)	100.00	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											59(Photon Whiz)		
					Plan 2										678(Photon Plus)			
				2G	Plan 1	97.02	82.00	76.00	150(Open Plan)					95.04(RNC_PAYG)		53(EDGE)		136.20(Talk invitation 50)
					Plan 2									1409.25 (HSD)				
				3G	Plan 1		1935.36	927.00	2844(Open Plan)									
					Plan 2													
					Plan 3													
				4G	Plans										4983.60			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1											73(Photon Whiz)		
					Plan 2										1298(Photon Plus)			
				2G	Plan 1	157.58	183.00	97.00	162(Open Plan)					167.68(RNC_PAYG)		93(EDGE)		170.02(Talk invitation 50)
					Plan 2									3401.07 (HSD)				
				3G	Plan 1		5734.40	1250.00	4111(Open Plan)									
					Plan 3													
	4G	Plans										22249.98						
	6	Latency	Data <250ms	All Generations			101.00								128.78			
2G (GSM)				122.83	203.00		202.00					92.33			197.17			
3G					178.00		167.00					36.08						
4G												66.05						
7	PDP Context Activation Success Rate	≥95%	All Generations			98.70							98.14					
			2G (GSM)	99.89	99.98		100.00				99.55			99.47				
			3G		100.00		100.00				99.11							
			4G								99.27							
8	Drop rate :	≤5%	All Generations			0.90							1.13					
			2G (GSM)	0.68	1.40		0.91				4.90			1.98				
			3G		0.76		1.22				0.86							
			4G								0.44							

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Haryana	1	Service Activation	Within 4 hrs with 95%	All Generations	100.00	94.00	98.33	99.90				99.65	99		99.99	
				2G (GSM)						100.00						
	2	Successful data transmission download	>80%	All Generations			87.66						100			
				2G (GSM)	100.00	100.00		100.00			99.85					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			99.95					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									33.27(Photon Whiz)		
					Plan 2									1149.48(Photon Plus)		
				2G	Plan 1	123.44	172.00	77.33			80.08(RNC_P AYG)			79.99(EDGE)		129.93(PLAN - 198 Rs / 2GB)
				3G	Plan 1		3993.60	917.67						1561.41(Photon 3G)		5077.10(PLAN - 198 Rs / 2GB)
					Plan 2									2349.79(Photon 3G)		
					Plan 3									2685.79(Photon 3G+)		
				4G	Plans								5795.82			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									57.89(Photon Whiz)		
					Plan 2									1682.23(Photon Plus)		
				2G	Plan 1	184.37	183.00	101.33			148.92(RNC_P AYG)			104.95(EDGE)		178.06(PLAN - 198 Rs / 2GB)
				3G	Plan 1		4300.80	1710.33						2633.76(Photon 3G)		7942.31(PLAN - 198 Rs / 2GB)
					Plan 2									3126.48(Photon 3G)		
					Plan 3									3779.20(Photon 3G+)		
				4G	Plans								33218.86			
6	Latency	Data <250ms	All Generations			121.67							68.4			
			2G (GSM)	122.44	201.00		140.00			105.19					85.34	
			3G		93.00		34.00								14.20	
			4G									66.73				
7	PDP Context Activation Success Rate	≥95%	All Generations			96.12							98.7			
			2G (GSM)	99.98	99.99		99.89			99.32					99.84	
			3G		100.00		98.53								99.70	
			4G									99.70				
8	Drop rate :	≤5%	All Generations			3.85							0.9			
			2G (GSM)	0.72	0.94		1.46			1.17					3.51	
			3G		0.07		1.63								1.01	
			4G									0.66				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Jammu and Kashmir	1	Service Activation	Within 4 hrs with 95%	All Generations	99.24	98.00	95.00	99.91				99.32			99.99	
				3G						100.00						
	2	Successful data transmission download	>80%	All Generations			91.00									
				2G (GSM)	100.00	100.00		100.00			100.00					97.16
				3G	100.00	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			100.00					97.93
				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	174.05	184.89	11.00	157(Open Plan)			123.17(RNC_PAYG)					125.90(Plan-99_1GB)
				3G Plan 1	2801.09	2764.80	274.00	2267(Open Plan)			1993.96(5 GB Unlimited)					
				4G Plans								4958.19				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1												
				2G Plan 1	194.10	219.39	11.00	163(Open Plan)			226.29(RNC_PAYG)					155.49(Plan-99_1GB)
				3G Plan 1	3146.93	3584.00	289.00	4400(Open Plan)			3674.27(5 GB Unlimited)					
				4G Plans								23533.01				
	6	Latency	Data <250ms	All Generations			152.00									
				2G (GSM)	105.50	212.00		207.00			102.57					132.83
				3G	40.50	100.00		163.00			90.24					
				4G								70.18				
	7	PDP Context Activation Success Rate	≥95%	All Generations			97.00									
				2G (GSM)	98.95	100.00		100.00			99.32					99.89
			3G	98.95	100.00		100.00			99.38						
			4G								99.50					
8	Drop rate :	≤5%	All Generations			1.00										
			2G (GSM)	1.04	1.68		0.29			2.24					1.56	
			3G	1.57	0.50		1.64			0.53						
			4G								0.47					

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Kolkata	1	Service Activation	Within 4 hrs with 95%	All Generations 3G	99.96	95.00		99.91		98		100.00	99.66		99.90	
	2	Successful data transmission download attempts	>80%	All Generations 2G (GSM) 3G CDMA 4G	100.00 100.00	100.00 100.00	96.00	100.00 100.00				100.00 100.00			99.84 100.00	
	3	Successful data transmission upload attempts	>75%	All Generations 2G (GSM) 3G CDMA 4G	100.00 100.00	100.00 100.00	95.00	100.00 100.00		100		100.00 100.00			99.85 99.96	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA Plan 1 Plan 2 2G Plan 1 Plan 2 3G Plan 1 Plan 2 Plan 3 4G Plans						942(Mblaze) 1135(Mblaze ultra)			98.50(RNC_PAYG)			162.48(Postpaid PayG Unlimited) 3151.14(Postpaid PayG Unlimited)
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1 Plan 2 2G Plan 1 3G Plan 1 Plan 2 Plan 3 4G Plans						1312(Mblaze) 1876(Mblaze ultra)			147.13(RNC PAYG) 2172.67 (HSD)			205.11(Postpaid PayG Unlimited) 7197.26(Postpaid PayG Unlimited)
	6	Latency	Data <250ms	All Generations 2G (GSM) 3G CDMA 4G	129.91 28.72	196.00 49.00	110.00	133.00 61.00				94.11 36.61			136.00 55.00	
	7	PDP Context Activation Success Rate	≥95%	All Generations 2G (GSM) 3G CDMA 4G	98.53 98.53	99.06 99.94	98.87 98.66	99.66 98.28			98.97		99.92 98.95		99.36 98.48	
	8	Drop rate :	≤5%	All Generations 2G (GSM) GSM (OSS) 3G 3G (OSS) CDMA 4G	0.53 0.66	1.58 0.17		1.16 2.10					1.47 0.05 1.10 0.51		2.89 0.36	
										0.3			0.39			

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status															
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone				
Kerala	1	Service Activation	Within 4 hrs with 95%	All Generations	99.80	94.00		99.88		96		99.67	80		99.99				
				2G (GSM)						100.00									
	2	Successful data transmission download attempts	>80%	All Generations			96.64							100					
				2G (GSM)	93.21	100.00		100.00		100.00				100.00					
				3G	93.21	100.00		100.00						100.00					
				CDMA						100									
				4G								100.00							
	3	Successful data transmission upload attempts	>75%	All Generations			96.36							100					
				2G (GSM)	91.65	100.00		100.00		100.00				100.00					
				3G	91.65	100.00		100.00						100.00					
				CDMA						100									
				4G								100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						442(Mblaze)				70(Photon Whiz)				
					Plan 2						980(Mblaze ultra)				845(Photon Plus)				
					Plan 3										1525(Photon Max)				
				2G	Plan 1	65.13	68.60	82.23		121(Open Plan)			150.53(RNC_PAYG)		36(EDGE)		109.63(3GB VMC 199 plan)		
					Plan 1	2883.33	1675.21	414.99		2520(Open Plan)							3853.04		
					Plan 2											1330(Photon 3G)			
							Plan 3									2598(Photon3G +)			
							4G	Plans							6303.19				
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						992(Mblaze)				83(Photon whiz)	
								Plan 2						1744(Mblaze ultra)				1884(Photon Plus)	
	Plan 3														1896(Photon Max)				
	2G	Plan 1	185.88				125.00	93.16		132(Open Plan)			194.54(RNC_PAYG)		125(EDGE)		153.84(3GB VMC 199 plan)		
		Plan 1	3078.88				3814.08	1143.36		3713(Open Plan)							5417.95		
							Plan 2									3989(Photon 3G)			
				Plan 3									5633(Photon3G +)						
				4G	Plans							27131.93							
6	Latency	Data <250ms	All Generations			147.00							55.5						
			2G (GSM)	71.65	203.00		120.00			129.52				76.33					
			3G	34.03	90.10		42.00							31.00					
			CDMA						90										
			4G									77.47							
7	PDP Context Activation Success Rate	≥95%	All Generations			97.84							98.6						
			2G (GSM)	99.55	100.00		99.20		99.82				98.48						
			3G	99.55	99.92		98.17						96.85						
			CDMA						99.4										
			4G								99.74								
8	Drop rate :	≤5%	All Generations			0.69							0.8						
			2G (GSM)	2.45	0.90		1.17		4.85				2.73						
			3G	1.25	0.28		1.49						0.72						
			CDMA						0.7										
			4G								0.67								

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status														
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone			
Karnataka	1	Service Activation	Within 4 hrs with 95%	All Generations	99.59	96.00	100.00	99.28		98		99.31	95		99.93			
				2G (GSM)						100.00								
	2	Successful data transmission download attempts	>80%	All Generations										100				
				2G (GSM)	100.00	100.00	99.11	100.00		100.00				100.00				
				3G	100.00	100.00	97.92											
				CDMA							100							
				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				100.00				
				3G	100.00	100.00	100.00							100.00				
				CDMA							100							
				4G								100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						715(Mblaze)			45.72(Photon Whiz)				
					Plan 2						1064(Mblaze ultra)			888.33(Photon Plus)				
					Plan 3									1046.33(Photon Max)				
				2G	Plan 1	129.50	148.62	24.80	166(Open Plan)			113.92(RNC_PAYG)			95.97(EDGE)		103.66(2 GB unlimited @ MRP 199)	
					Plan 2													
						Plan 3												
				3G	Plan 1	2646.27	1977.20	440.37										7089.76
					Plan 2												2897(Photon 3G)	
						Plan 3											4927(Photon3G +)	
					4G	Plans									3133.95			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1711(Mblaze)			70.39(Photon Whiz)				
					Plan 2						2289(Mblaze ultra)			1421.33(Photon Plus)				
					Plan 3									1715.67(Photon Max)				
				2G	Plan 1	183.04	196.83	88.30	124(Open Plan)			132.81(RNC_PAYG)			131(EDGE)		119.73(2 GB unlimited @ MRP 199)	
					Plan 2													
				Plan 3												4425(Photon 3G)		
4G				Plans										9168(Photon3G +)				
6	Latency	Data <250ms	All Generations			109.70						17994.99	66.7					
			2G (GSM)	87.33	100.00		142.00			123.11				106.67				
			3G	31.67	71.30									44.84				
			CDMA							122								
			4G									90.01						
7	PDP Context Activation Success Rate	≥95%	All Generations			18.57							98.9					
			2G (GSM)	99.38	99.55		99.68			100.00				99.66				
			3G	99.38	98.76									96.37				
			CDMA							98.73								
			4G									99.80						
8	Drop rate :	≤5%	All Generations			0.79							0.5					
			2G (GSM)	1.46	2.09		0.51			2.74				1.90				
			3G	0.44	0.43									0.18				
			CDMA							0.8								
			4G									0.73						

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Maharashtra	1	Service Activation	Within 4 hrs with 95%	All Generations	99.16	96.00	98.00	99.90				99.54	95	100	99.95	
				2G (GSM)						100.00						
	2	Successful data transmission download	>80%	All Generations			95.00						100	100		
				2G (GSM)	100.00	100.00		100.00			86.66					100.00
				3G		100.00		100.00								99.99
				4G								100.00				
	3	Successful data transmission upload	>75%	All Generations			90.33							100	100	
				2G (GSM)	100.00	199.00		100.00			100.00					100.00
				3G		100.00		100.00								99.99
				4G							99.00		100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									69.87(Photon Whiz)		
					Plan 2									602.5(Photon Plus)		
				2G	Plan 1	118.36	36.76	106.67	140(Open Plan)		84.34(RNC_P AYG)			69.2(EDGE)	108.4	154.46(Rs. 599 unlimited 2G Data Plan)
				3G	Plan 1		1102.70	2983.33	3050(Open Plan)							3011.82(Unlimited 2G & 3G Data Plan)
					Plan 2									3299.83(Photon 3G)		
					Plan 3									1062.82(Photon 3G+)		
				4G	Plans								3579.36		857.19	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									79.18(Photon Whiz)		
					Plan 2									1162.53(Photon Plus)		
				2G	Plan 1	137.69	117.36	114.33	183(Open Plan)		133.71(RNC_P AYG)			125.06(EDGE)	182.4	226.62(Rs. 599 unlimited 2G Data Plan)
				3G	Plan 1		4898.80	2850.00	5234(Open Plan)							6298.02(Unlimited 2G & 3G Data Plan)
					Plan 2									7264.01(Photon 3G)		
					Plan 3									2732.07(Photon 3G+)		
				4G	Plans								30971.00		1258	
	6	Latency	Data <250ms	All Generations			118.33							67.9	203.7	
				2G (GSM)	122.83	246.00		138.00			147.72 ms					140.17
				3G		51.50		117.00								44.77
				4G									94.04			
7	PDP Context Activation Success Rate	≥95%	All Generations			98.33							98	99.6		
			2G (GSM)	99.52	100.00		99.69			99.82					99.87	
			3G		100.00		99.58								99.54	
			4G									99.78				
8	Drop rate :	≤5%	All Generations			2.13							0.9	0.66		
			2G (GSM)	0.61	0.00		1.42			1.83					0.69	
			3G		0.00		1.04								0.25	
			4G									0.65				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status														
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone			
Madhya Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00	95.00		99.80				99.80	100		99.99			
				2G (GSM)			96.00											
				3G			96.00				100.00							
	2	Successful data transmission download	>80%	All Generations									100					
				2G (GSM)	99.47	98.73	100.00	100.00			100.00				99.83			
				3G		99.10	100.00	100.00			100.00							
				4G							100.00							
	3	Successful data transmission upload	>75%	All Generations									100					
				2G (GSM)	99.62	98.31	100.00	100.00			100.00				99.67			
				3G		98.81	100.00	100.00			100.00							
				4G							100.00							
		Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									69(Photon Whiz)				
					Plan 2										659(Photon Plus)			
				3G	Plans	2G	Plan 1	129.44	75.22		66(Open Plan)			61.04(RNC_PAYG)		61(EDGE)		85.83(MBB_C_V_199_30d_D2GB_F U 2G)
						Plan 1		1892.43	1140(3G Postpaid Data Plan - FMC-50)	2797(Open Plan)				728.53 (HSD)				
						Plan 2			1258(3G Postpaid Data Plan - FMC-225)							1247(Photon 3G)		
						Plan 3			1369(3G Postpaid Data Plan - FMC-501)							2774(Photon3G +)		
									1487(3G Postpaid Data Plan - FMC-666)									
									1520(3G Postpaid Data Plan - FMC-901)									
									1385(3G Prepaid Data Recharge Vouchers-56)									
								1356(3G Prepaid Data Recharge Vouchers-78)										
								1150(3G Prepaid Data Recharge Vouchers-339)										
								1836(3G Prepaid Data Recharge Vouchers-155)										
								1546(3G Prepaid Data Recharge Vouchers-197)										
								1658(3G Prepaid Data Recharge Vouchers-395)										
				1580(3G Prepaid Data Recharge Vouchers-444)														
				1457(3G Prepaid Data Recharge Vouchers-561)														
			4G	Plans								4008.06						

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status															
SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone				
Madhya Pradesh	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								80(Photon whiz)						
					Plan 2								1244(Photon Plus)						
				2G	Plan 1	181.96	128.86		143(Open Plan)					123.64(RNC_PAYG)		104(EDGE)		180.36(MBB_C_V_199_30d_D2GB_FU_2G)	
					3G	Plan 1		6391.08	2226(3G Postpaid Data Plan - FMC-75)	5106(Open Plan)					1310.57 (HSD)				
				Plan 2				2546(3G Postpaid Data Plan - FMC-225)						2492(Photon 3G)					
				Plan 3				2136(3G Postpaid Data Plan - FMC-501)						5781(Photon3G +)					
								1985(3G Postpaid Data Plan - FMC-666)											
								2365(3G Postpaid Data Plan - FMC-901)											
								2458(3G Prepaid Data Recharge Vouchers-56)											
								2147(3G Prepaid Data Recharge Vouchers-78)											
								2150(3G Prepaid Data Recharge Vouchers-339)											
								2489(3G Prepaid Data Recharge Vouchers-155)											
								2581(3G Prepaid Data Recharge Vouchers-197)											
							2099(3G Prepaid Data Recharge Vouchers-395)												
							2369(3G Prepaid Data Recharge Vouchers-444)												
							2045(3G Prepaid Data Recharge Vouchers-561)												
							4G Plans									16688.38			
				6	Latency	Data <250ms	All Generations										70.4		
							2G (GSM)	102.20	107.00	201.90	128.00				160.00			143.11	
							3G		34.00	111.00	119.00				125.00				
4G											106.75								
7	PDP Context Activation Success Rate	≥95%	All Generations										99.2						
			2G (GSM)	97.91	99.66	96.50	99.96				99.55			99.84					
			3G		99.06	98.50	99.23				99.11								
			4G								99.81								
8	Drop rate :	≤5%	All Generations										1.3						
			2G (GSM)	4.50	3.81		0.36				3.52			1.80					
			3G		0.03	0.90	0.81				0.37								
			4G								0.47								

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Mumbai	1	Service Activation	Within 4 hrs with 95%	All Generations 3G	99.81	96.00		99.82	98.42			98.22	97		99.71	
	2	Successful data transmission download attempts	>80%	All Generations									100			
	2G (GSM)			100.00	100.00		100.00	99.53		100.00			100.00			
	3G				100.00			99.81		100.00			100.00			
	HSD									100.00						
	LTE									100.00						
	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			100.00			
	3G				100.00			99.88		100.00			100.00			
	HSD									100.00						
	LTE									100.00						
	4G										100.00					
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									53(Photon whiz)		
	Plan 2												1070(Photon Plus)			
	2G			Plan 1	95.24	155.50		97(Open Plan)	50.53		64.44		38(EDGE)	155.97(VMC699UL)		
	3G			Plan 1		2874.80			628.43		1956.14			4451.53(MI 8GB)		
	4G			Plans									3057.56			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									77(Photon whiz)		
	Plan 2													1367(Photon Plus)		
	2G			Plan 1	143.69	193.32		160(Open Plan)	79.69		131.10		128(EDGE)	200.47(VMC699UL)		
	3G			Plan 1		4385.10			956.82		2912.53			7173.39(MI 8GB)		
	4G			Plans									16152.40			
	6	Latency	Data <250ms	All Generations										95.68		
	2G (GSM)			138.00	94.00		123.00			119.95				91.26		
	3G				23.00			204.00		41.40				15.49		
	4G											73.81				
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.48					96.42		
2G (GSM)	99.32			99.92		99.08			100.00				99.59			
3G				99.19					100.00				99.02			
HSD									100.00							
LTE									100.00							
4G										99.68						
8	Drop rate :	≤5%	All Generations					1.99					1.04			
2G (GSM)			0.64	4.15		0.19			0.70				3.24			
3G				0.09					0.37				0.51			
4G											0.49					

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
North East	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.65	99.00		99.93				99.84			100.00	
				2G (GSM)			100.00									
				3G			100.00					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				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				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	154.16	122.37	64.41(Postpaid Data Plans 99)	74(Open Plan)								133.06(Pack @699)
							64.41(Postpaid Data Plans 125)									
							64.41(Postpaid Data Plans 225)									
						64.41(Postpaid Data Plans 501)										
						64.41(Postpaid Data Plans 901)										
						64.41(Prepaid Data special Tariff Vouchers-17)										
						64.41(Prepaid Data special Tariff Vouchers-39)										
						64.41(Prepaid Data special Tariff Vouchers-78)										
						64.41(Prepaid Data special Tariff Vouchers-98)										
						64.41(Prepaid Data special Tariff Vouchers-139)										
						64.41(Prepaid Data special Tariff Vouchers-251)										
						64.41(Prepaid Data special Tariff Vouchers-561)										
						64.41(Prepaid Data special Tariff Vouchers-821)										
						64.41(Prepaid Data special Tariff Vouchers-1011)										

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017					Compliance Status															
Sl. No.	Parameters	Benchmarks	Generations		Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone				
North East			3G	Plan 1	2433.09	1503.00	961.77(Postpaid Data Plans 99)						2136.82(HS D)				3202.54			
				Plan 2			961.77(Postpaid Data Plans 125)													
				Plan 3			961.77(Postpaid Data Plans 225)													
									961.77(Postpaid Data Plans 501)											
									961.77(Postpaid Data Plans 901)											
									961.77(Prepaid Data special Tariff Vouchers-17)											
									961.77(Prepaid Data special Tariff Vouchers-39)											
									961.77(Prepaid Data special Tariff Vouchers-78)											
									961.77(Prepaid Data special Tariff Vouchers-98)											
									961.77(Prepaid Data special Tariff Vouchers-139)											
									961.77(Prepaid Data special Tariff Vouchers-251)											
									961.77(Prepaid Data special Tariff Vouchers-561)											
									961.77(Prepaid Data special Tariff Vouchers-821)											
									961.77(Prepaid Data special Tariff Vouchers-1011)											
						4G	Plans									4858.17				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status																
SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone					
North East	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1															
				2G	Plan 1	198.80	182.72	68.91(Postpaid Data Plans 99)	122(Open Plan)									170.75(Pack @699)		
								68.91(Postpaid Data Plans 125)												
								68.91(Postpaid Data Plans 225)												
								68.91(Postpaid Data Plans 501)												
								68.91.(Postpaid Data Plans 901)												
								68.91(Prepaid Data special Tariff Vouchers-17)												
								68.91(Prepaid Data special Tariff Vouchers-39)												
								68.91(Prepaid Data special Tariff Vouchers-78)												
								68.91(Prepaid Data special Tariff Vouchers-98)												
								68.91(Prepaid Data special Tariff Vouchers-139)												
								68.91(Prepaid Data special Tariff Vouchers-251)												
								68.91(Prepaid Data special Tariff Vouchers-561)												
								68.91(Prepaid Data special Tariff Vouchers-821)												
								68.91(Prepaid Data special Tariff Vouchers-1011)												

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
North East			3G	Plan 1	3530.86	4053.00	966.58(Postpaid Data Plans 99)					3600.55(HS D)				4608.17
				Plan 2			966.58(Postpaid Data Plans 125)									
				Plan 3			966.58(Postpaid Data Plans 225)									
							966.58(Postpaid Data Plans 501)									
							966.58(Postpaid Data Plans 901)									
							966.58(Prepaid Data special Tariff Vouchers-17)									
							966.58(Prepaid Data special Tariff Vouchers-39)									
							966.58(Prepaid Data special Tariff Vouchers-78)									
							966.58(Prepaid Data special Tariff Vouchers-98)									
							966.58(Prepaid Data special Tariff Vouchers-139)									
							966.58(Prepaid Data special Tariff Vouchers-251)									
							966.58(Prepaid Data special Tariff Vouchers-561)									
							966.58(Prepaid Data special Tariff Vouchers-821)									
							966.58(Prepaid Data special Tariff Vouchers-1011)									
				4G	Plans								30658.94			
6	Latency	Data <250ms	All Generations													
			2G (GSM)	123.83	223.00	242.00	105.00									181.33
			3G	38.17	36.70	220.00					92.66					64.67
			4G									76.57				
7	PDP Context Activation Success Rate	≥95%	All Generations													
			2G (GSM)	98.87	96.67	130.73	99.81									99.81
			3G	98.87	98.50	132.09					100.00					97.41
			4G									99.27				
8	Drop rate :	≤5%	All Generations													
			2G (GSM)	0.88	1.97		0.18									2.96
			3G	1.67	3.22	4.44					0.62					0.84
			4G									0.56				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
North East - II	1	Service Activation	Within 4 hrs with 95%	All Generations		100.00										
				3G												
	2	Successful data transmission download	>80%	All Generations		100.00										
				2G (GSM)												
				3G												
				4G												
	3	Successful data transmission upload	>75%	All Generations		100.00										
				2G (GSM)												
				3G												
				4G												
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA Plan 1												
				2G Plan 1												
				3G Plan 1		381kbps										
				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		963 kbps										
				Plan 2												
				4G Plans												
	6	Latency	Data <250ms	All Generations		120 ms										
				2G (GSM)												
				3G												
				4G												
7	PDP Context Activation Success Rate	≥95%	All Generations		98.24											
			2G (GSM)													
			3G													
			4G													
8	Drop rate :	≤5%	All Generations		0.36											
			2G (GSM)													
			3G													
			4G													

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Orissa	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.92	96.00		99.91				99.65	100		99.98	
				2G (GSM)			100.00									
				3G			100.00					100.00				
	2	Successful data transmission 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 transmission 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									73(Photon Whiz)		
					Plan 2									1315(Photon Plus)		
				2G	Plan 1	197.73	73.56	77 (All Plans)	60(Open Plan)					132(EDGE)		119.26(Plan-99_1GB)
				3G	Plan 1	2745.52	1861.21	1509(All Plans)					1457.97 (HSD)			
					Plan 2											
					Plan 3											
				4G	Plans								4030.52			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									76(Photon Whiz)		
					Plan 2									1602(Photon Plus)		
				2G	Plan 1	228.08	152.69	137(All Plans)	140(Open Plan)					144(EDGE)		168.89(Plan-99_1GB)
				3G	Plan 1	4761.80	3368.53	4574(All Plans)					3019.68 (HSD)			
					Plan 2											
					Plan 3											
				4G	Plans								27746.18			
	6	Latency	Data <250ms	All Generations										95.02		
				2G (GSM)	85.79	166.00	339.90	74.00								141.00
				3G	52.42	57.80	111.10						35.00			
			4G									77.92				
7	PDP Context Activation Success Rate	≥95%	All Generations										98.39			
			2G (GSM)	98.50	99.39	99.00	99.14								99.86	
			3G	98.50	99.83	99.05						100.00				
			4G									98.94				
8	Drop rate :	≤5%	All Generations										0.49			
			2G (GSM)	0.87	3.21		1.55								1.71	
			3G	0.81	0.40	1.07						0.07				
			4G									0.54				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Punjab	1	Service Activation	Within 4 hrs with 95%	All Generations	99.79	98.00	100.00	99.90				99.52	97		99.97	
				2G (GSM)						100.00						
	2	Successful data transmission download	>80%	All Generations			96.20							100		
				2G (GSM)	99.95	100.00		100.00			100.00					100.00
				3G	99.95	100.00		100.00			100.00					
				4G								100.00				
	3	Successful data transmission upload	>75%	All Generations			95.10							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									42.80(Photon Whiz)		
					Plan 2									708.92(Photon Plus)		
					Plan 3									2458.67(Photon Max)		
				2G	Plan 1	101.89	120.00				152.96(RNC_PAYG)			74.17(EDGE)		116.24(Unlimited@199)
				3G	Plan 1	3066.09	2027.52	1121.35	1902(Open Plan)		1947.75(5 GB Unlimited)			1338.23(Photon 3G)		
					Plan 2									2896.81(Photon 3G)		
					Plan 3									4180.50(Photon 3G+)		
				4G	Plans								3209.42			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									73.45(Photon Whiz)		
					Plan 2									1600.55(Photon Plus)		
					Plan 3									3059.44(Photon Max)		
				2G	Plan 1	134.77	198.00		171(Open Plan)		186.31(RNC_PAYG)			100.54(EDGE)		168.11(Unlimited@199)
				3G	Plan 1	5310.25	2355.20	1475.93	4057(Open Plan)		3200.57(5 GB Unlimited)			2111.60(Photon 3G)		
					Plan 2									3614.63(Photon 3G)		
					Plan 3									5246.36(Photon 3G+)		
				4G	Plans								14138.01			
	6	Latency	Data <250ms	All Generations										63.9		
				2G (GSM)	114.67	210.00		162.00			236.00					96.00
			3G	24.12	102.00	145.48	81.00			39.00						
			4G								70.90					
7	PDP Context Activation Success Rate	≥95%	All Generations			97.23							98.8			
			2G (GSM)	96.72	99.97		100.00			99.32					99.47	
			3G	96.72	99.99		100.00			99.38						
			4G								98.91					
8	Drop rate :	≤5%	All Generations			1.15							1.6			
			2G (GSM)	0.48	0.21		1.47			1.89					2.41	
			3G	1.78	0.11		0.33			0.36						
			4G								0.38					

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Rajasthan	1	Service Activation	Within 4 hrs with 95%	All Generations 3G	99.98	95.00	95.00	99.94		95		99.73	100		99.96	
	2	Successful data transmission download attempts	>80%	All Generations 2G (GSM) 3G CDMA 4G	99.23	100.00 100.00	98.00					100.00	100		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations 2G (GSM) 3G CDMA 4G	98.89	100.00 100.00	97.00					100.00	100		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 3G Plan 1						685(Mblaze) 1278(Mblaze ultra)				69(Photon Whiz) 1349(Photon Plus) 108(EDGE)		127.36(Unlimited GB (VL+VMC)@599) 5077.56
							210.710(Postpaid Data Plan 50)	95(Open Plan)			75.37(RNC_P AYG)					
						2608.31	204.107(Postpaid Data Plan 75)				1266.28(5 GB Unlimited)					
							203.113(Postpaid Data Plan 170)									
							244.741(Postpaid Data Plan 225)									
							203.527(Postpaid Data Plan 501)									
							268.923(Postpaid Data Plan 666)									
							204.779(Postpaid Data Plan 901)									
							237.612(Postpaid Data Plan 1711)									
							262.039(Postpaid Data Plan 240)									
							237.921(Postpaid Data Plan 340)									
							209.945(Prepaid Data STV 4)									
							207.866(Prepaid Data STV 14)									
							226.711(Prepaid Data STV 31)									
							220.625(Prepaid Data STV 39)									
							223.135(Prepaid Data STV 56)									
							223.271(Prepaid Data STV 68)									
						202.191(Prepaid Data STV 78)										
						226.259(Prepaid Data STV 98)										
						204.805(Prepaid Data STV 155)										

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Rajasthan						200.470(Prepaid Data STV 198)										
						236.199(Prepaid Data STV 239)										
						225.624(Prepaid Data STV 291)										
						244.016(Prepaid Data STV 444)										
						205.417(Prepaid Data STV 451)										
						237.544(Prepaid Data STV 561)										
						202.527(Prepaid Data STV 821)										
						216.154(Prepaid Data STV 1099)										
						202.976(Prepaid Data STV 1949)										
						203.389(Prepaid Data STV 3099)										
						228.868(Prepaid Data STV 156)										
						235.507(Prepaid Data STV 399)										
						210.253(Prepaid Data STV 549)										
						231.764(Prepaid Data STV 629)										
						229.713(Prepaid Data STV 2399)										
				4G Plans									3270.93			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1						1765(Mblaze)				78(Photon Whiz)		
				Plan 2						3189(Mblaze ultra)				1751(Photon Plus)		
				2G Plan 1	140.04	168.28		159(Open Plan)			119.49(RNC_PAYG)			129(EDGE)		184.47(Unlimited GB (VL+VMC)@599)
				3G Plan 1		2893.92	237.59				1667.44(5 GB Unlimited)					8350.71
			4G Plans									23063.32				
6	Latency	Data <250ms	All Generations			96 ms							102.7			
			2G (GSM)	116.33	166.00		91.00			248.00					118.00	
			3G		57.30					53.33					99.58	
			CDMA						68							
			4G									73.07				
7	PDP Context Activation Success Rate	≥95%	All Generations			99.99							97.7			
			2G (GSM)	98.62	99.94		99.30			97.84					99.35	
			3G		100.00					100.00					96.48	
			CDMA						98.85							
			4G									99.63				
8	Drop rate :	≤5%	All Generations			0.32							1.16			
			2G (GSM)	0.47	1.20		0.11			2.13					3.14	
			3G		0.56					0.54					0.74	
			CDMA						0.7							
			4G									0.50				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Tamilnadu	1	Service Activation	Within 4 hrs with 95%	All Generations	99.27	97.00	100.00	99.90		97		99.63	100		99.99	
				2G (GSM)						100.00						
	2	Successful data transmission download attempts	>80%	All Generations										100		
				2G (GSM)	100.00	100.00	99.69	100.00			100.00					100.00
				3G	100.00	100.00	99.93									100.00
				CDMA						100						
				4G									100.00			
	3	Successful data transmission upload attempts	>75%	All Generations										100		
				2G (GSM)	100.00	100.00	99.03	100.00			99.94					100.00
				3G	100.00	100.00	99.84									100.00
				CDMA						100						
				4G									100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA						1084(Mblaze)				57(Photon Whiz)		
					Plan 1									773(Photon Plus)		
					Plan 2					1885(Mblaze ultra)				70(EDGE)		
				2G	Plan 1	145.89	124.47	79.90	88(Open Plan)		60.64(RNC_PAYG)					125.82(199 Unlimited 2GB)
				3G	Plan 1	4188.16	4341.76	1198.90								2274.96(650 Unlimited 3GB)
				4G	Plans								3467.02			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA						1450(Mblaze)				77(Photon Whiz)		
					Plan 1									1641(Photon Plus)		
					Plan 2					2731(Mblaze ultra)				118(EDGE)		
				2G	Plan 1	223.83	185.84	121.00	143(Open Plan)		144.67(RNC_PAYG)					165.83(199 Unlimited 2GB)
				3G	Plan 1	7214.97	5632.00	2216.10								6973.61(650 Unlimited 3GB)
				4G	Plans								15769.80			
	6	Latency	Data <250ms	All Generations										100.44		
				2G (GSM)	68.72	213.00	386.10	98.00			116.85					117.33
				3G	24.72	73.30	198.30									30.00
				CDMA						79						
			4G									98.99				
7	PDP Context Activation Success Rate	≥95%	All Generations										97.84			
			2G (GSM)	98.41	100.00	100.00	99.85			99.82					99.76	
			3G	98.41	100.00	100.00									98.66	
			CDMA						99.59							
			4G									99.87				
8	Drop rate :	≤5%	All Generations										0.66			
			2G (GSM)	1.36	0.98	0.00	0.94			2.33					2.56	
			3G	0.53	0.20	0.00									0.56	
			CDMA						1.1							
			4G									0.45				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
Uttar Pradesh (East)	1	Service Activation	Within 4 hrs with 95%	All Generations	99.99	97.00	97.00	99.94				99.75	100	99	99.92	
				2G (GSM)						100.00						
	2	Successful data transmission download	>80%	All Generations			90.30						100	100		
				2G (GSM)	100.00	100.00		100.00			97.67					99.84
				3G	100.00	100.00		100.00								99.51
				4G								100.00				
	3	Successful data transmission upload	>75%	All Generations			82.80							100	100	
				2G (GSM)	100.00	100.00		100.00			97.33					99.96
				3G	100.00	100.00		100.00								99.96
				4G								100.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									80(Photon Whiz)		
					Plan 2									1533.60(Photon Plus)		
					Plan 3									2486.2233(Photon Max)		
				2G	Plan 1	124.30	102.21	89.00			67.01(RNC_PAYG)			80.51(EDGE)	71	132.31(Rs.1599 12GB Free)
				3G	Plan 1	1932.66	2748.00	1607.00								6207.18(Rs.1599 12GB Free)
				4G	Plans								5667.48		2029.693	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									82.18(Photon Whiz)		
					Plan 2									1771.74(Photon Plus)		
					Plan 3									2890.47(Photon Max)		
				2G	Plan 1	182.25	233.52	125.00			147.48(RNC_PAYG)			116.68(EDGE)	89.7	190.80(Rs.1599 12GB Free)
				3G	Plan 1	4935.48	6154.00	1833.00								9750.15(Rs.1599 12GB Free)
				4G	Plans								31859.23		2084.927	
	6	Latency	Data <250ms	All Generations			200.00							69.93	153.4	
				2G (GSM)	81.21	220.00		187.00			124.83					170.00
				3G	36.34	110.00		100.00								45.22
				4G									95.35			
	7	PDP Context Activation Success Rate	≥95%	All Generations			98.37							97.89	98.8	
				2G (GSM)	98.67	99.76		99.87			97.84					99.60
			3G	98.67	100.00		99.75								99.12	
			4G									99.64				
8	Drop rate :	≤5%	All Generations			3.45							1.58	0.76		
			2G (GSM)	0.72	1.58		1.32			3.62					4.41	
			3G	0.36	0.56		1.48								0.80	
			4G									0.73				

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status														
SI. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone			
Uttar Pradesh (West)	1	Service Activation	Within 4 hrs with 95%	All Generations	100.00	97.00	97.80	99.90		97			99.81	100	99	99.99		
				2G (GSM)								100.00						
	2	Successful data transmission download attempts	>80%	All Generations			94.70							100	100			
				2G (GSM)	95.38	100.00		100.00				100.00					99.94	
				3G		100.00		100.00									99.51	
				CDMA						99.8								
				4G								100.00						
	3	Successful data transmission upload attempts	>75%	All Generations			91.80							100	100			
				2G (GSM)	94.61	100.00		100.00				100.00					99.51	
				3G		100.00		100.00									99.91	
				CDMA						99.7								
				4G								100.00						
		Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						833(Mblaze)				76(Photon Whiz)			
					Plan 2						1785(Mblaze ultra)				556(Photon Plus)			
					Plan 3										2015(Photon Max)			
				2G	Plan 1	96.54	95.86	99.70	84(Open Plan)				114.36(RNC_PAYG)		114(EDGE)	108	91.64(250 with 1 GB data)	
				3G	Plan 1		1356.54	1506.00	2054(Open Plan)								542.02	
					Plan 2											2360(Photon 3G)		
					Plan 3											3505(Photon3G +)		
				4G	Plans									4116.72			1308.477	
		Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1274(Mblaze)				82(Photon Whiz)			
					Plan 2						2802(Mblaze ultra)				1156(Photon Plus)			
					Plan 3										2531(Photon Max)			
				2G	Plan 1	175.67	199.71	118.00	184(Open Plan)				176.55(RNC_PAYG)		139(EDGE)	131.6	186.36(250 with 1 GB data)	
				3G	Plan 1		2655.34	2001.30	3450(Open Plan)								4008.57	
					Plan 2										4140(Photon 3G)			
					Plan 3										5424(Photon3G +)			
		4G	Plans									26002.27			2170.054			
6	Latency	Data <250ms	All Generations			226.00							65.9	124				
			2G (GSM)	110.33	155.00		105.00				227.00					188.52		
			3G		75.00		71.00									89.98		
			CDMA						61									
			4G								88.82							
7	PDP Context Activation Success Rate	≥95%	All Generations			97.40							98.7	99.6				
			2G (GSM)	99.65	100.00		99.78				99.32					99.88		
			3G		100.00		98.62									98.86		
			CDMA						99.49									
			4G								99.30							
8	Drop rate :	≤5%	All Generations			2.80							1.3	0.48				
			2G (GSM)	0.74	1.20		1.30				1.24					3.87		
			3G		0.63		1.80									0.65		
			CDMA						0.88									
			4G								0.57							

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider. Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending : June 2017				Compliance Status												
Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Rcom	RTL	Reliance JIO	TATA	Telenor	Vodafone	
West Bengal	1	Service Activation	Within 4 hrs with 95%	All Generations 3G	99.99	95.00	98.03	99.93		99		100.00	99.89	100	100.00	
	2	Successful data transmission download attempts	>80%	All Generations 2G (GSM) 3G CDMA 4G	100.00 100.00	100.00 100.00	98.48	100.00				97.43		100	99.60 99.83	
	3	Successful data transmission upload attempts	>75%	All Generations 2G (GSM) 3G CDMA 4G	100.00 100.00	100.00 100.00	98.44	100.00				98.36		100	99.62 99.59	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA Plan 1 Plan 2 2G Plan 1 3G Plan 1 Plan 2 4G Plans						836(Mblaze) 1188(Mblaze ultra)				59(Photon Whiz) 71(EDGE)		99.93(2GB Plan) 2757.79(5GB Plan)
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1 Plan 2 2G Plan 1 3G Plan 1 Plan 2 Plan 3 4G Plans						1224(Mblaze) 1974(Mblaze ultra)			4966.57	76(Photon Whiz) 144(EDGE)		5599.33(5GB Plan)
	6	Latency	Data <250ms	All Generations 2G (GSM) 3G CDMA 4G	146.00 26.55	232.00 45.50	130.00	191.00				63		38.40	138.83	128.67 52.67
	7	PDP Context Activation Success Rate	≥95%	All Generations 2G (GSM) 3G CDMA 4G	99.10 99.10	99.92 99.92	97.06	99.13				98.86		100.00	98.39	99.71 98.49
	8	Drop rate :	≤5%	All Generations 2G (GSM) 3G 3G(OSS) CDMA 4G	1.26 1.34	3.13 0.53		1.13						1.92 0.61	0.66	4.03 0.78
													27424.93			
													2188.87 (HSD)			

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider.
 Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.