

Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services
Report for quarter ending: September, 2015

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status															
				Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.87	100		100.00						99	100		97.45		
				2G (GSM)						100.00									
				3G															
				CDMA															
	2	Successful data transmission download attempts	>80%	All Generations										100	100				
				2G (GSM)	100.00	100		100.00									100.00		
				3G	100.00	100		100.00											
				CDMA															
	3	Successful data transmission upload attempts	>75%	All Generations										100	100				
				2G (GSM)	100.00	100		100.00									100.00		
				3G	100.00	100		100.00											
				CDMA															
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									90.33 (IX-RNC_PAYG)		63.00 (Photon Whiz)			
					Plan 2										1244.00 (Photon Plus)				
					Plan 3														
				2G	Plan 1	118.06	137.1		120.00 (Open Plan)					91.67 (RNC_PAYG)		93.00 (EDGE)	79.3		133.47 (Rs 125 Plan with 1GB free)
Plan 2																			
Plan 3																			
3G				Plan 1	3470.22	1614.4		2179 (Open Plan)											
				Plan 2															
				Plan 3															
4G				Plans															
				Plan 1															
				Plan 2															
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									105.33 (IX-RNC_PAYG)		73.00 (Photon Whiz)				
				Plan 2										1813.00 (Photon Plus)					
				Plan 3															
			2G	Plan 1	162.97	166.9		127.00 (Open Plan)					149.33 (RNC_PAYG)		118.00 (EDGE)	152.7		184.52 (Rs 125 Plan with 1GB free)	
				Plan 2															
				Plan 3															
			3G	Plan 1	5496.60	2334.7		4201.00 (Open Plan)											
				Plan 2															
				Plan 3															
4G	Plans																		
	Plan 1																		
	Plan 2																		
6	Latency	Data <250ms	All Generations											110	136				
			2G (GSM)	95.04	214.7		142.00										99.50		
			3G	12.54	78		28.00												
			CDMA																
			HSD																
7	PDP Context Activation Success Rate	≥95%	All Generations											98.26	99.18				
			2G (GSM)	91.07	100		99.90										99.90		
			3G	91.07	98.5		97.90												
			CDMA																
			HSD																
8	Drop rate :	≤5%	All Generations											1.1	4.4				
			2G (GSM)	0.79	1.2		0.80										2.89		
			3G	0.84	0.7		0.78												
			CDMA																
			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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
Assam	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.34	100		100.00									99.94			
				2G (GSM)																
				3G											100.00					
				HSD																
	2	Successful data transmission download attempts	>80%	All Generations																
				2G (GSM)	100.00	100		100.00						100.00				100.00		
				3G	100.00	100								99.74						
				CDMA																
	3	Successful data transmission upload attempts	>75%	All Generations																
				2G (GSM)	100.00	100		100.00						100.00				100.00		
				3G	100.00	100								100.00						
				CDMA																
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	127.05	123.9		76.00 (Open Plan)							67.55 (RNC_PAYG)				126.78 (Pack @ 699)
					Plan 2															
					Plan 3															
				3G	Plan 1	2794.10	1360.8									1066.26 (HSD)				
					Plan 2															
					Plan 3															
				4G	Plans															
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1																
				Plan 2																
				Plan 3																
			2G	Plan 1	149.91	163.3		115.00 (Open Plan)							126.63 (RNC_PAYG)				164.49 (Pack @ 699)	
				Plan 2																
				Plan 3																
			3G	Plan 1	3464.52	3479.3									1979.85 (HSD)					
				Plan 2																
				Plan 3																
			4G	Plans																
6	Latency	Data <250ms	All Generations																	
			2G (GSM)	98.00	229.3		107.00						229.94				220.00			
			3G	36.17	32.8								83.56							
			CDMA																	
7	PDP Context Activation Success Rate	≥95%	All Generations																	
			2G (GSM)	97.59	99.7		99.77						99.62				99.96			
			3G	97.59	100								98.66							
			CDMA																	
8	Drop rate :	≤5%	All Generations																	
			2G (GSM)	1.11	1.1		0.15						5.04				2.67			
			3G	0.60	0.8								0.55							
			CDMA																	

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.95	100		100.00						97	100		99.86			
				2G																
				3G											100.00					
				CDMA										100.00						
	2	Successful data transmission download attempts	>80%	All Generations											100	100	95.44			
				2G (GSM)	100.00	99.5		100.00						100.00				100.00		
				3G	100.00	100									96.03					
				CDMA										100.00						
	3	Successful data transmission upload attempts	>75%	All Generations											100	100	93.71			
				2G (GSM)	100.00	99.7		100.00						100.00				100.00		
				3G	100.00	100									100.00					
				CDMA										100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									94.32 (IX-RNC_PAYG)		41.00 (Photon Whiz)				
					Plan 2										951.00 (Photon Plus)					
					Plan 3															
				2G	Plan 1	125.92	161.6		90.00 (Open Plan)							103.92 (RNC_PAYG)	23.00 (EDGE)	91.2	155 (Prepaid-STV 96)	141.43 (VMC+VFL_3GB_3Od_2G_2G RC 199Y_2G)
					Plan 2															
					Plan 3															
				3G	Plan 1	2771.63	3070.5									830.30 (HSD)				
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									117.22 (IX-RNC_PAYG)		64.00 (Photon Whiz)				
					Plan 2										1411.00 (Photon Plus)					
					Plan 3															
				2G	Plan 1	162.91	203.4		107.00 (Open Plan)							171.55 (RNC_PAYG)	136.00 (EDGE)	107.5	200 (Prepaid-STV 96)	178.08 (VMC+VFL_3GB_3Od_2G_2G RC 199Y_2G)
Plan 2																				
Plan 3																				
3G				Plan 1	3638.61	3135.2									1233.04 (HSD)					
				Plan 2																
				Plan 3																
4G				Plans																
6	Latency	Data <250ms	All Generations											101.01	125	229.00				
			2G (GSM)	100.62	247.5		240.00						111.08			125.00				
			3G	29.75	64.5									37.58						
			CDMA										165.20							
7	PDP Context Activation Success Rate	≥95%	All Generations											97.99	99.18	100.00				
			2G (GSM)	94.12	99.5		98.56						99.62			99.90				
			3G	94.12	100									98.66						
			CDMA										97.92							
			HSD																	
8	Drop rate :	≤5%	All Generations											0.86	4.9	1.60				
			2G (GSM)	1.03	1.8		1.03						4.82			3.20				
			3G	0.80	0.2								0.83							
			CDMA										0.59							

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

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	93											99.82				
	2	Successful data transmission download attempts	>80%	All Generations																
				2G (GSM)	100											100.00				
				3G	100											100.00				
	3	Successful data transmission upload attempts	>75%	CDMA																
				All Generations																
				2G (GSM)	100														100.00	
				3G	100														100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	114.7														84.59 (199 Unlimited 2GB)
					Plan 2															
					Plan 3															
				3G	Plan 1	1605.1														1914.88 (650 Unlimited 3GB)
					Plan 2															
					Plan 3															
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1												
	Plan 2																			
	Plan 3																			
	2G	Plan 1	204.5																	168.53 (199 Unlimited 2GB)
		Plan 2																		
		Plan 3																		
	3G	Plan 1	4526														2570.24 (650 Unlimited 3GB)			
		Plan 2																		
		Plan 3																		
	6	Latency	Data <250ms	All Generations	2G (GSM)	230.7												123.15		
					3G	39.9												24.56		
CDMA																				
7				PDP Context Activation Success Rate	≥95%	All Generations	2G (GSM)	100												99.87
	3G	100															99.64			
	CDMA																			
	8	Drop rate :	≤5%			All Generations	2G (GSM)	0.9												2.72
3G				0.2													0.78			
CDMA																				
CDMA																				

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone					
Delhi	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.10	100		100.00	98.99	100				99			99.30				
				CDMA									100.00								
				GSM																	
				3G									100.00								
	2	Successful data transmission download attempts	>80%	All Generations														100			
				2G (GSM)	100.00	99.1		100.00	94.96										97.93		
				3G		99.7			97.42				100.00						99.21		
				CDMA							100		100.00								
	3	Successful data transmission upload attempts	>75%	All Generations														100			
				2G (GSM)	100.00	99.9		100.00	93.23				100.00					99.72			
				3G		99.2			96.86				100.00						99.86		
				CDMA							100		100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1005 (Mblaze)			86.87 (IX-RNC_PAYG)			68.00 (Photon Whiz)				
					Plan 2						2077 (Mblaze ultra)		758.15 (HSD)			1635 (Photon Plus)					
					Plan 3											2776 (Photon Max)					
				2G	Plan 1	90.23	79.5		120.00 (Open Plan)	72.85						75.23 (RNC_PAYG)				71.38 (Rs. 125 Rental plan with 1GB free)	
					Plan 2																
					Plan 3																
				3G	Plan 1		2103.8					391.34					1349.01 (5 GB Unlimited)				771 (Rs. 250 Rental plan with 1GB free)
					Plan 2																
					Plan 3																
				4G	Plans																
					Plan 1								1643 (Mblaze)				117.17 (IX-RNC_PAYG)			82 (Photon Whiz)	
					Plan 2								3165 (Mblaze ultra)				660.95 (HSD)			2111 (Photon Plus)	
	2G	Plan 1	136.96	109.2		155.00 (Open Plan)	82.61							144.32 (RNC_PAYG)				171.75 (Rs. 125 Rental plan with 1GB free)			
		Plan 2																			
		Plan 3																			
	3G	Plan 1		2375.6					499.89					3007.65 (5 GB Unlimited)				3876.00 (Rs. 250 Rental plan with 1GB free)			
Plan 2																					
Plan 3																					
4G	Plans																				
	Plan 1																				
	Plan 2																				
6	Latency	Data <250ms	All Generations						172.00								67.7				
			2G (GSM)	128.95	204		133.00					107.44					235.00				
			3G		80.9								23.20					56.33			
			CDMA							65		157.08									
7	PDP Context Activation Success Rate	≥95%	All Generations						96.62								96.76				
			2G (GSM)	91.38	100		99.12					99.93					99.89				
			3G		100								99.10					99.18			
			CDMA							97.5		98.34									
8	Drop rate :	≤5%	All Generations						2.24								1.23				
			2G (GSM)	1.60	1.2		1.38					3.90					2.91				
			3G		0.6								0.91					0.50			
			CDMA							1.4		0.49									
HSD										0.43											

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Gujarat	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations			97.22	99		100.00		100		100	100		99.10			
				2G (GSM)										100.00						
				CDMA										100.00						
				HSD										99.00						
	2	Successful data transmission download attempts	>80%	All Generations										100	100	97.09				
				2G (GSM)			94.72	100		100.00			100.00					99.76		
				3G						100.00								99.79		
				CDMA								100	100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100	100	96.74				
				2G (GSM)			99.09	100		100.00			100.00					98.58		
				3G						100.00								99.87		
				CDMA								100	100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1153 (Mblaze)			77.98 (IX-RNC_PAYG)		69 (Photon Whiz)				
					Plan 2						2069 (Mblaze ultra)			589.37 (HSD)		448 (Photon Plus)				
					Plan 3											1505 (Photon Max)				
				2G	Plan 1	117.21	66.3		72.00 (Open Plan)						69.54 (RNC_PAYG)		107 (EDGE)	44.6	137.01 (Plan:STV Rs. 125 (2.5GB for	84.36 (2G MI199)
Plan 2																				
Plan 3																				
3G				Plan 1				2430.00 (Open Plan)											2436.00 (3G MI850)	
				Plan 2												1080 (Photon 3G)				
				Plan 3												3494 (Photon3G+)				
4G				Plans																
				CDMA	Plan 1								1697 (Mblaze)			110.46 (IX-RNC_PAYG)		82 (Photon Whiz)		
					Plan 2								3520 (Mblaze ultra)			1053.22 (HSD)		1246 (Photon Plus)		
Plan 3													1980 (Photon Max)							
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	166.57	129.5		145.00 (Open Plan)					126.63 (IX-RNC_PAYG)		125 (EDGE)	92.2	177 (Plan:STV Rs. 125 (2.5GB for)	148.48 (2G MI199)		
				Plan 2																
				Plan 3																
			3G	Plan 1				4500.00 (Open Plan)											5802 (3G MI850)	
				Plan 2												2574 (Photon 3G)				
				Plan 3												4100 (Photon3G+)				
4G			Plans																	
6	Latency	Data <250ms	All Generations											60.6	180	239.00				
			2G (GSM)			118.50	244.3		101.00				243.01					155.00		
			3G						94.00									32.33		
			CDMA								81		191.28							
			HSD										57.43							
7	PDP Context Activation Success Rate	≥95%	All Generations											98.9	99.18	99.99				
			2G (GSM)			95.31	99.2		100.00				99.93					97.44		
			3G						100.00									96.51		
			CDMA								98.6		98.34							
			HSD										98.34							
8	Drop rate :	≤5%	All Generations											1.9	4.50	1.51				
			2G (GSM)			0.66	3		0.16				0.47					4.23		
			3G						0.82									0.78		
			CDMA								1.7		0.52							
			HSD										0.56							

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HP	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.86	100		100.00					100			99.86			
				2G (GSM)															
				3G										100.00					
				CDMA									100.00						
	2	Successful data transmission download attempts	>80%	All Generations										200					
				2G (GSM)	100.00	100		100.00					100.00				100.00		
				3G		100		100.00					100.00						
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										99.6					
				2G (GSM)	100.00	100		100.00					100.00				100.00		
				3G		100		100.00					100.00						
				CDMA									100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							107.86 (IX-RNC_PAYG)		52 (Photon Whiz)					
					Plan 2									465 (Photon Plus)					
					Plan 3														
				2G	Plan 1	87.15	130		88.00 (Open Plan)					90.63 (RNC_PAYG)		66 (EDGE)			64.87 (Talk invitation 50)
					Plan 2														
					Plan 3														
				3G	Plan 1		1727.1		2459.00 (Open Plan)						1172.56 (HSD)				
					Plan 2														
					Plan 3														
				4G	Plans														
					Plan 1									120.71 (IX-RNC_PAYG)		71 (Photon Whiz)			
					Plan 2											799 (Photon Plus)			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	151.31	217.3		151.00 (Open Plan)				141.68 (RNC_PAYG)		99 (EDGE)			181.14 (Talk invitation 50)	
					Plan 2														
					Plan 3														
				3G	Plan 1		4532.9		4955.00 (Open Plan)						2473.55 (HSD)				
Plan 2																			
Plan 3																			
6	Latency	Data <250ms	All Generations										131.18						
			2G (GSM)	129.33	209.7		117.00					134.98			107.83				
			3G		160		102.00						76.19						
			CDMA									182.68							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.38						
			2G (GSM)	99.05	99.9		99.46					99.85			99.89				
			3G		100		98.32					98.23							
			CDMA									97.92							
8	Drop rate :	≤5%	All Generations										1.77						
			2G (GSM)	0.85	1.4		0.82					4.41			4.09				
			3G		0.6		1.29					0.72							
			CDMA									0.20							

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

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00	93		100.00						100			99.50			
				2G (GSM)									100.00							
				CDMA									100.00							
				HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100		97.42		100.00		
				2G (GSM)	100.00	100		99.99					99.90						100.00	
				3G				100.00											99.83	
				CDMA									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100		97.43				
				2G (GSM)	100.00	100		100.00					100.00					99.83		
				3G				100.00											100.00	
				CDMA									100.00							
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1																
				Plan 2																
				Plan 3																
			2G	Plan 1	132.30	122.5		58.00 (Open Plan)										248.52 (STV Rs. 109 1GB 31 Days)	98.73 (Plan-198 Rs / 2GB)	
				Plan 2																
				Plan 3																
			3G	Plan 1				1288.00 (Open Plan)								1042.45 (Photon 3G)			3035.15 (Plan-198 Rs/2GB)	
				Plan 2												1499.95 (Photon 3G)				
				Plan 3												2715.49 (Photon3G+)				
			4G	Plans																
				CDMA	Plan 1												111.43 (IX-RNC_PAYG)		62.78 (Photon Whiz)	
					Plan 2												924.59 (HSD)		794.37 (Photon Plus)	
Plan 3																				
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	153.85	213.7		137.00 (Open Plan)									231 (STV Rs. 109 1GB 31 Days)	147.53 (Plan-198 Rs/ 2GB)		
				Plan 2																
				Plan 3																
			3G	Plan 1				4107.00 (Open Plan)								1847.80 (Photon 3G)			5342.64 (Plan-198 Rs / 2GB)	
				Plan 2												2388.07 (Photon 3G)				
				Plan 3												4006.43 (Photon3G+)				
4G	Plans																			
6	Latency	Data <250ms	All Generations											75.3		210.00				
			2G (GSM)	118.44	208		205.00					102.60					122.14			
			3G				37.00											37.72		
			CDMA									176.73								
			HSD									47.12								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.9		100.00					
			2G (GSM)	99.91	99.5		98.92					99.93					99.92			
			3G				98.98											99.59		
			CDMA									98.34								
8	Drop rate :	≤5%	All Generations										1.7		1.65					
			2G (GSM)	0.25	0.9		0.88					1.51					4.00			
			3G				1.44											1.53		
			CDMA									0.29								
			HSD									0.34								

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.78	91		100.00										99.81		
			2G (GSM)																
			3G										100.00						
			HSD																
			All Generations																
			2G (GSM)	100.00	100		100.00						100.00						97.80
			3G	100.00	100		100.00						100.00						
			CDMA																
			HSD																
			All Generations																
			2G (GSM)	100.00	100		100.00						100.00						96.37
			3G	100.00	100		100.00						100.00						
CDMA																			
HSD																			
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	164.32	153.8		121.00 (Open Plan)					116.65 (RNC_PAYG)						83.39 (Plan-99_1GB)
			Plan 2																
			Plan 3																
			3G	Plan 1	1998.08	1573.5		119.00 (Open Plan)					1621.24 (5 GB Unlimited)						
			Plan 2																
			Plan 3																
			4G	Plans															
			5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA													
Plan 1																			
Plan 2																			
Plan 3																			
2G	Plan 1	184.02				209.7		150.00 (Open Plan)					211.18 (RNC_PAYG)						158.65 (Plan-99_1GB)
Plan 2																			
Plan 3																			
3G	Plan 1	3244.20				3167.6		4265.00 (Open Plan)					3947.09 (5 GB Unlimited)						
Plan 2																			
Plan 3																			
4G	Plans																		
6	Latency	Data <250ms				All Generations													
			2G (GSM)	106.83	221		157.00					125.88						151.00	
			3G	108.50	115.7		119.00						95.33						
			CDMA																
			HSD																
7	PDP Context Activation Success Rate	≥95%	All Generations																
			2G (GSM)	99.53	99.9		99.43					99.93						99.96	
			3G	99.53	99.2		119.00						99.10						
			CDMA																
			HSD																
8	Drop rate :	≤5%	All Generations																
			2G (GSM) (oss)	1.25	1		0.20					2.88						2.84	
			3G	1.33	0.8		119.00						2.14						
			CDMA																
			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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.86	99		99.99		100				100			98.52			
				2G (GSM)																
				3G											100.00					
				CDMA										100.00						
												100.00								
	2	Successful data transmission download attempts	>80%	All Generations										100						
				2G (GSM)	100.00	100		100.00						100.00				99.21		
				3G	100.00	100								100.00					99.82	
				CDMA							100		100.00							
												100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										99.94						
				2G (GSM)	100.00	100		100.00						100.00				99.53		
				3G	100.00	100								100.00					99.93	
				CDMA							100		100.00							
												100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						425 (Mblaze)		100.83 (IX-RNC_PAYG)		46 (Photon Whiz)					
					Plan 2						954 (Mblaze ultra)		877.69 (HSD)		876 (Photon Plus)					
					Plan 3										1583 (Photon Max)					
				2G	Plan 1	114.59	110.4		118.00 (Open Plan)						89.43 (RNC_PAYG)	27 (EDGE)				76.55 (Postpaid PayG Unlimited)
					Plan 2															
					Plan 3															
				3G	Plan 1	2899.06	1957.5									1495.85 (HSD)				1604.25 (Postpaid PayG Unlimited)
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1274 (Mblaze)		123.73 (IX-RNC_PAYG)		67 (Photon Whiz)					
Plan 2										2863 (Mblaze ultra)		960.22 (HSD)		1288 (Photon Plus)						
Plan 3														3088 (Photon Max)						
2G				Plan 1	169.56	177.2		153.00 (Open Plan)						149.08 (RNC_PAYG)	106 (EDGE)				157.18 (Postpaid PayG Unlimited)	
				Plan 2																
				Plan 3																
3G				Plan 1	4277.03	2980.7									2186.82 (HSD)				5479.12 (Postpaid PayG Unlimited)	
				Plan 2																
				Plan 3																
4G	Plans																			
6	Latency	Data <250ms	All Generations										96.63							
			2G (GSM)	119.89	132		143.00						96.00			109.00				
			3G	23.22	67								36.00			49.67				
			CDMA							57		180.36								
			HSD									45.66								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.35							
			2G (GSM)	97.46	100		99.02						99.62			99.68				
			3G	97.46	100								98.66			99.10				
			CDMA							98.4		97.92								
			HSD									97.92								
8	Drop rate :	≤5%	All Generations										1.46							
			2G (GSM)	1.45	1.3		1.17					4.70			2.10					
			3G	1.26	0							0.74			0.51					
			CDMA							1.1		0.19								
			HSD									0.36								

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone					
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations			99.73	96	100.00	100				100			98.85				
				2G (GSM)										100.00							
				CDMA										100.00							
				HSD										100.00							
	2	Successful data transmission download attempts	>80%	All Generations											100						
				2G (GSM)			100.00	100		100.00				99.94				97.43			
				3G			100.00			100.00											
				CDMA								100		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations											100						
				2G (GSM)			100.00	100		100.00				100.00					98.54		
				3G			100.00			100.00											
				CDMA								100		99.83							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						991 (Mblaze)			95.23 (IX-RNC_PAYG)		73 (Photon Whiz)					
					Plan 2						1788 (Mblaze ultra)			704.07 (HSD)		885 (Photon Plus)					
					Plan 3											1632 (Photon Max)					
				2G	Plan 1	40.83	77.1		104.00 (Open Plan)						87.09 (RNC_PAYG)		32 (EDGE)			78.37 (3GB VMC 199 plan)	
					Plan 2																
					Plan 3																
				3G	Plan 1	1087.27			2041.00 (Open Plan)												
					Plan 2													1427 (Photon 3G)			
					Plan 3													2905 (Photon3G+)			
				4G	Plans																
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1601 (Mblaze)			120.61 (IX-RNC_PAYG)		86 (Photon Whiz)		
								Plan 2						3111 (Mblaze ultra)			908.55 (HSD)		1925 (Photon Plus)		
	Plan 3															2729 (Photon Max)					
	2G	Plan 1	191.57				137.4		131.00 (Open Plan)						171.97 (RNC_PAYG)		117 (EDGE)			130.24 (3GB VMC 199 plan)	
		Plan 2																			
		Plan 3																			
3G	Plan 1	2901.33						3127.00 (Open Plan)													
	Plan 2																4429 (Photon 3G)				
	Plan 3																6328 (Photon3G+)				
4G	Plans																				
6	Latency	Data <250ms	All Generations											70.9							
			2G (GSM)			73.73	215.2		137.00				108.87					124.00			
			3G			30.50			62.00												
			CDMA								84		161.47								
7	PDP Context Activation Success Rate	≥95%	All Generations											98.9							
			2G (GSM)			95.31	100		99.80				99.93					99.76			
			3G			95.31			98.92												
			CDMA								98.9		95.88								
8	Drop rate :	≤5%	All Generations											1.3							
			2G (GSM) (OSS)			2.24	0.9		0.79				3.39					3.90			
			3G			0.21			1.46												
			CDMA								1.7		0.62								
			HSD								0.83										

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
Karnataka	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.72	100		100.00		100			99			87.98			
				2G (GSM)							100.00								
				CDMA								100.00							
				HSD								100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100					
				2G (GSM)	100.00	100		100.00				100.00					91.75		
				3G	100.00	100													
				CDMA							100	100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100					
				2G (GSM)	100.00	100		100.00				100.00					85.52		
				3G	100.00	100													
				CDMA							100	100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						585 (Mblaze)		62.45 (IX-RNC_PAYG)		45 (Photon Whiz)				
					Plan 2						744 (Mblaze ultra)		495.45 (HSD)		862.33 (Photon Plus)				
					Plan 3										1177.67 (Photon Max)				
				2G	Plan 1	155.25	101.3		127.00 (Open Plan)					59.98 (RNC_PAYG)		52.67 (EDGE)			100.75 (2GB unlimited @ MRP 199)
					Plan 2														
					Plan 3														
				3G	Plan 1	3036.48	1010.6										2724 (Photon 3G)		
					Plan 2														
					Plan 3												4825 (Photon 3G+)		
				4G	Plans														
					Plan 1								1130 (Mblaze)		114.81 (IX-RNC_PAYG)		65 (Photon Whiz)		
					Plan 2								1570 (Mblaze ultra)		1027.93 (HSD)		1511.67 (Photon Plus)		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 3												1938.67		
					2G	Plan 1	182.34	144.2		148.00 (Open Plan)				101.78 (RNC_PAYG)		93.33 (EDGE)		163.28 (2 GB unlimited @ MRP 199)	
					Plan 2														
				3G	Plan 1	7333.73	2144.9												
Plan 2																4279 (Photon 3G)			
Plan 3																	5453 (Photon3G+)		
4G	Plans																		
6	Latency	Data <250ms	All Generations										74.4						
			2G (GSM)	95.03	125.9		135.00					54.64				242.33			
			3G	30.00	55.2														
			CDMA							121		208.36							
			HSD									55.54							
7	PDP Context Activation Success Rate	≥95%	All Generations										99						
			2G (GSM)	95.31	99.3		99.29					99.69				99.88			
			3G	95.31	99.1														
			CDMA							98.9		95.88							
			HSD									95.88							
8	Drop rate :	≤5%	All Generations										1.8						
			2G (GSM)	1.27	1.2		0.69					1.82				3.12			
			3G	0.83	0.6														
			CDMA							0.9		0.29							
HSD									0.92										

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations			99.98	99						100	100		98.62		
				2G (GSM)										100.00					
				CDMA										100.00					
				HSD										100.00					
	2	Successful data transmission download attempts	>80%	All Generations											100	100			
				2G (GSM)			100.00	99.7		100.00				99.89				99.43	
				3G						100.00									99.77
				CDMA										100.00					
	3	Successful data transmission upload attempts	>75%	All Generations											100	100			
				2G (GSM)			100.00	99.8		100.00				99.97				99.51	
				3G						100.00									99.61
				CDMA										100.00					
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1															
				Plan 2															
				Plan 3															
			2G	Plan 1	101.11	88		112.00 (Open Plan)											125.70 (Rs.599 unlimited 2G Data plan)
				Plan 2															
				Plan 3															
			3G	Plan 1				2083.00 (Open Plan)											2573.99 (unlimited 2G&3G Data plan)
				Plan 2															
				Plan 3															
			4G	Plans															
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1															
				Plan 2															
				Plan 3															
			2G	Plan 1	122.36	144.4		151 (Open Plan)											176.35 (Rs.599 unlimited 2G Data plan)
				Plan 2															
				Plan 3															
			3G	Plan 1				3565 (Open Plan)											3794.94 (unlimited 2G&3G Data plan)
				Plan 2															
				Plan 3															
			4G	Plans															
6	Latency	Data <250ms	All Generations											94.7	140				
			2G (GSM)			116.50	248.2		130.00				186.02				154.15		
			3G						100.00									38.50	
			CDMA																
			HSD																
7	PDP Context Activation Success Rate	≥95%	All Generations											98.8	99.18				
			2G (GSM)			95.31	99.2		100.00				99.93				99.80		
			3G						100.00									98.39	
			CDMA																
			HSD																
8	Drop rate :	≤5%	All Generations											2.4	4.6				
			2G (GSM)			0.70	2.9		1.04				1.54				0.69		
			3G						2.26									0.27	
			CDMA																
			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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
Madhya Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.98	99	100.00						99			98.80			
				2G (GSM)															
				3G										100.00					
				CDMA									100.00						
	2	Successful data transmission download attempts	>80%	All Generations										100		97.28			
				2G (GSM)	100.00	98.6		100.00					100.00				98.50		
				3G				100.00					100.00						
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100		97.21			
				2G (GSM)	100.00	98.6		100.00					100.00				97.17		
				3G				100.00					100.00						
				CDMA									100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							59.03 (IX-RNC_PAYG)		71 (Photon Whiz)					
					Plan 2								545.36 (HSD)		437 (Photon Plus)				
					Plan 3														
				2G	Plan 1	127.29	84.4		75.00 (Open Plan)						78.67 (RNC_PAYG)	62 (EDGE)		28.00 (Plan:STV Rs. 97 (675MB))	64.77 (MBB_C_V_199_30d_D2GB_FU_2G)
					Plan 2														
					Plan 3														
				3G	Plan 1				2118.00 (Open Plan)						1444 (HSD)				
					Plan 2											1360 (Photon 3G)			
					Plan 3														
				4G	Plans														
					Plan 1														
					Plan 2														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							104.83 (IX-RNC_PAYG)		78 (Photon Whiz)					
					Plan 2								844.45 (HSD)		1187 (Photon Plus)				
					Plan 3														
				2G	Plan 1	146.81	124		143.00 (Open Plan)						168.95 (RNC_PAYG)	102 (EDGE)		172 (Plan:STV Rs.97 (675MB))	154.41(MBB_C_V_199_30d_D2GB_FU_2G)
Plan 2																			
Plan 3																			
3G				Plan 1				4067.00 (Open Plan)						3683.14 (HSD)					
				Plan 2											2437 (Photon 3G)				
				Plan 3															
4G	Plans																		
	Plan 1																		
	Plan 2																		
6	Latency	Data <250ms	All Generations										73.5		235.00				
			2G (GSM)	118.89	118.7		107.00					168.87				148.10			
			3G				96.00						105.33						
			CDMA									172.04							
			HSD									94.60							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.5		99.70				
			2G (GSM)	95.31	98.5		99.26				99.88	99.88				99.54			
			3G				98.39					98.31							
			CDMA									97.92							
			HSD									97.92							
8	Drop rate :	≤5%	All Generations										2		1.45				
			2G (GSM)	3.76	3.6		1.18					4.45				2.94			
			3G				1.20					1.28							
			CDMA									0.42							
			HSD									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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
Mumbai	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.82	100		100.00	95.33				98			98.97			
				2G (GSM)															
				3G									100.00						
				CDMA									100.00						
	2	Successful data transmission download attempts	>80%	All Generations										100					
				2G (GSM)	99.79	100		100.00	96.98			100.00					100.00		
				3G		100			99.92			100.00					100.00		
				CDMA								100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100					
				2G (GSM)	99.81	100		100.00	99.97			100.00				100.00			
				3G		100			100.00			100.00				100.00			
				CDMA								100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							69.94 (IX-RNC_PAYG)		37 (Photon Whiz)					
					Plan 2							556.74 (HSD)		358 (Photon Plus)					
					Plan 3														
				2G	Plan 1	95.90	133		95 (Open Plan)	33.66			96.95 (RNC_PAYG)		79 (EDGE)			117.03 (VMC699UL)	
					Plan 2														
					Plan 3														
				3G	Plan 1		2403.2				527.11			3316.40					3778.73 (MI 8GB)
					Plan 2														
					Plan 3														
				4G	Plans														
					CDMA	Plan 1								105.12 (IX-RNC_PAYG)		75 (Photon Whiz)			
						Plan 2								1221.98 (HSD)		729 (Photon Plus)			
	Plan 3																		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	143.55	192.9		159 (Open Plan)	75.85		191.75 (RNC_PAYG)		147 (EDGE)			186.38 (VMC699UL)		
					Plan 2														
					Plan 3														
3G				Plan 1		4415.3				820.39			3719.27				7121.69 (MI 8GB)		
				Plan 2															
				Plan 3															
6	Latency	Data <250ms	All Generations										91.89						
			2G (GSM)	129.20	102.3		111.00			154.63				63.68					
			3G		24.4			145.23		24.55				15.55					
			CDMA						162.00										
7	PDP Context Activation Success Rate	≥95%	All Generations					100.00					98.28						
			2G (GSM)	95.31	98.6		99.20			99.93				99.09					
			3G		100					99.38				98.51					
			CDMA						98.34										
			HSD						98.34										
8	Drop rate :	≤5%	All Generations					2.23					1.86						
			2G (GSM)	1.46	4.2		0.31			1.59				2.91					
			3G		0.3					0.98				0.45					
			CDMA						0.22										
			HSD						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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
North East	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.84	100		100.00									99.92			
				2G (GSM)																
				3G											100.00					
				HSD																
	2	Successful data transmission download attempts	>80%	All Generations																
				2G (GSM)	100.00	100		100.00						99.91				100.00		
				3G	100.00	100								99.83						
				CDMA																
	3	Successful data transmission upload attempts	>75%	All Generations																
				2G (GSM)	100.00	100		100.00						100.00				99.88		
				3G	100.00	100								100.00						
				CDMA																
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	119.30	165.8		73.00 (Open Plan)							57.89 (RNC_PAYG)				92.33 (Pack @ 699)
					Plan 2															
					Plan 3															
				3G	Plan 1	727.54	1627.4									1092.53 (HSD)				
					Plan 2															
					Plan 3															
				4G	Plans															
					Plan 1															
					Plan 2															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	167.94	213.5		96.00 (Open Plan)							119.27 (RNC_PAYG)				133.31 (Pack @ 699)
Plan 2																				
Plan 3																				
3G				Plan 1	3068.81	2849.1									1950.98 (HSD)					
				Plan 2																
				Plan 3																
4G	Plans																			
	Plan 1																			
	Plan 2																			
6	Latency	Data <250ms	All Generations																	
			2G (GSM)	119.05	233.3		111.00						228.02				223.33			
			3G	32.63	38.1								82.97							
			CDMA																	
7	PDP Context Activation Success Rate	≥95%	All Generations																	
			2G (GSM)	97.50	99.4		99.67						99.62				99.96			
			3G	97.50	100								98.66							
			CDMA																	
8	Drop rate :	≤5%	All Generations																	
			2G (GSM)	2.63	1.9		0.18						4.24				2.94			
			3G	1.22	1.5								0.76							
			CDMA																	

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
Orissa	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.77	98	99.99						100			99.94			
				2G (GSM)															
				3G											100.00				
				CDMA										100.00					
	2	Successful data transmission download attempts	>80%	All Generations										100					
				2G (GSM)	100.00	100		100.00						100.00				100.00	
				3G	100.00									100.00					
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100					
				2G (GSM)	100.00	100		100.00						100.00				100.00	
				3G	100.00									100.00					
				CDMA									100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1								53.63 (IX-RNC_PAYG)		62 (Photon Whiz)				
					Plan 2										1272 (Photon Plus)				
					Plan 3														
				2G	Plan 1	82.53	135.9		62.00 (Open Plan)						72.88 (RNC_PAYG)	87 (EDGE)			94.04 (Plan-99_1GB)
					Plan 2														
					Plan 3														
				3G	Plan 1	2391.20										1113 (HSD)			
					Plan 2														
					Plan 3														
				4G	Plans														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								72.57(IX-RNC_PAYG)		69 (Photon Whiz)				
Plan 2														1535 (Photon Plus)					
Plan 3																			
2G				Plan 1	127.53	165.8		110.00 (Open Plan)						121.19 (RNC_PAYG)	116 (EDGE)			143.53 (Plan-99_1GB)	
				Plan 2															
				Plan 3															
3G				Plan 1	3366.99										2457.33 (HSD)				
				Plan 2															
				Plan 3															
4G				Plans															
6	Latency	Data <250ms	All Generations										109.36						
			2G (GSM)	108.81	101.8		188.00					126.40				138.00			
			3G	67.03															
			CDMA									187.66							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.3						
			2G (GSM)	97.75	99.6		99.52					99.62				99.92			
			3G	97.75									98.66						
			CDMA									98.34							
8	Drop rate :	≤5%	All Generations										1.18						
			2G (GSM)	0.98	2.3		1.36					2.10				3.06			
			3G	0.72															
			CDMA									0.00							

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
Punjab	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.92	96		100.00						100			99.20			
				2G (GSM)									100.00							
				3G									100.00							
				CDMA									100.00							
				HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations							97.25				100					
				2G (GSM)	99.89	100		100.00					100.00					100.00		
				3G	99.89			100.00						100.00						
				CDMA									100.00							
				HSD									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations							97.10				100					
				2G (GSM)	99.50	100		100.00					100.00					100.00		
				3G	99.50			100.00						100.00						
				CDMA									100.00							
				HSD									100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									99.07 (IX-RNC_PAYG)		34.45 (Photon Whiz)				
					Plan 2									632.21 (HSD)		244.58 (Photon Plus)				
					Plan 3											3142.56 (Photon Max)				
				2G	Plan 1	93.46	120.7		94.00 (Open Plan)				160 (Prepaid - STV 96)		125.19 (RNC_PAYG)		55.73 (EDGE)			125.22 (Unlimited@199)
					Plan 2															
					Plan 3															
				3G	Plan 1	2437.12			2468.00 (Open Plan)						1763.39 (5 GB Unlimited)		920.87 (Photon 3G)			
					Plan 2												2180.04 (Photon 3G)			
					Plan 3												3937.61 (Photon3G+)			
				4G	Plans															
					Plan 1										117.60 (IX-RNC_PAYG)		71.86 (Photon Whiz)			
					Plan 2										1093.46 (HSD)		1302.66 (Photon Plus)			
				2G	Plan 1	127.75	186.4		151.00 Open Plan)				218 (Prepaid - STV 96)		166.76 (RNC_PAYG)		88.86 (EDGE)			161.44 (Unlimited@199)
Plan 2																				
Plan 3																				
3G	Plan 1	3166.86			4705.00 (Open Plan)						2943.42 (5 GB Unlimited)		1855.29 (Photon 3G)							
	Plan 2												3306.89 (Photon 3G)							
	Plan 3												5225.68 (Photon3G+)							
4G	Plans																			
	Plan 1																			
	Plan 2																			
6	Latency	Data <250ms	All Generations								243.00			65.1						
			2G (GSM)	119.91	213		191.00					217.00					84.35			
			3G	52.28			38.00						39.00							
			CDMA										180.00							
			HSD										53.00							
7	PDP Context Activation Success Rate	≥95%	All Generations								100.00			98.6						
			2G (GSM)	97.88	99.8		100.00						99.93				99.89			
			3G	97.88			100.00						99.10							
			CDMA										98.34							
			HSD										98.34							
8	Drop rate :	≤5%	All Generations								1.80			2.3						
			2G (GSM)	1.22	0.8		1.35						1.91				1.69			
			3G	1.67			1.08						0.74							
			CDMA										0.29							
			HSD										0.33							

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
Tamilnadu	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.44	100		100.00		100			99			99.92				
				2G (GSM)								100.00								
				CDMA									100.00							
				HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100						
				2G (GSM)	100.00	100		100.00					100.00				100.00			
				3G	100.00	100												100.00		
				CDMA							100		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100						
				2G (GSM)	100.00	100		100.00					99.91				100.00			
				3G	100.00	100												100.00		
				CDMA							100		99.97							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						864 (Mblaze)			59.11 (IX-RNC_PAYG)		52 (Photon Whiz)				
					Plan 2						1585 (Mblaze ultra)			516.41 (HSD)		755 (Photon Plus)				
					Plan 3											1326 (Photon Max)				
				2G	Plan 1	149.81	111.7		88.00 (Open Plan)							60.42 (RNC_PAYG)		52 (EDGE)		114.15 (199 Unlimited 2GB)
					Plan 2															
					Plan 3															
				3G	Plan 1	1901.23	1729.8													1227.32 (650 Unlimited 3GB)
					Plan 2															
					Plan 3															
				4G	Plans															
					Plan 1															
					Plan 2															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1098 (Mblaze)			104.4 (IX-RNC_PAYG)		74 (Photon Whiz)				
					Plan 2						2324 (Mblaze ultra)			930.83 (HSD)		1356 (Photon Plus)				
					Plan 3											2240 (Photon Max)				
				2G	Plan 1	201.18	170.1		128.00 (Open Plan)							139.14 (RNC_PAYG)		92 (EDGE)		153.13 (199 Unlimited 2GB)
Plan 2																				
Plan 3																				
3G				Plan 1	3198.29	3085.7													2667.04 (650 Unlimited 3GB)	
				Plan 2																
				Plan 3																
4G	Plans																			
	Plan 1																			
	Plan 2																			
6	Latency	Data <250ms	All Generations										88.04							
			2G (GSM)	82.23	230.4		116.00					114.56				117.83				
			3G	33.29	63.7												37.33			
			CDMA							77		155.60								
			HSD									45.60								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.45							
			2G (GSM)	95.31	99.9		99.87					99.93				99.90				
			3G	95.31	99.9												99.64			
			CDMA							99.1		97.92								
8	Drop rate :	≤5%	All Generations										1.31							
			2G (GSM)	1.30	0.6		1.17					0.49				4.04				
			3G	1.06	0.2												0.79			
			CDMA							1.8		1.13								
			HSD									1.15								

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone			
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations			99.99	98		100.00		100		99	100		99.89		
				2G (GSM)										100.00					
				CDMA										100.00					
				HSD										98.00					
	2	Successful data transmission download attempts	>80%	All Generations										100	100	96.58		99.99	
				2G (GSM)			98.47	99.9		100.00			100.00						
				3G				100		100.00									
				CDMA							100		100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100	100	96.63		99.99	
				2G (GSM)			96.98	100		100.00			100.00						
				3G				100		100.00									
				CDMA							100		100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1045 (Mblaze)		91.53 (IX-RNC_PAYG)		67 (Photon Whiz)				
					Plan 2						1785 (Mblaze ultra)		676.96 (HSD)		788 (Photon Plus)				
					Plan 3										1577 (Photon Max)				
				2G	Plan 1	84.01	51.6		86.00 (Open Plan)					112.38 (RNC_PAYG)		73 (EDGE)	93.5	155 (Prepaid - STV 96)	77.57 (250 with 1GB data)
					Plan 2														
					Plan 3														
				3G	Plan 1		959.3		3724.00 (Open Plan)										
					Plan 2											2116 (Photon 3G)			
Plan 3															3919 (Photon3G+)				
4G				Plans															
	Plan 1								1753 (Mblaze)		108.43 (IX-RNC_PAYG)		82 (Photon Whiz)						
	Plan 2								3073 (Mblaze ultra)		970.94 (HSD)		1577 (Photon Plus)						
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1															
				Plan 2															
				Plan 3															
			2G	Plan 1	141.09	144.6		144.00 (Open Plan)					164.86 (RNC_PAYG)		107 (EDGE)	118	197 (Prepaid - STV 96)	146.27 (250 with 1GB data)	
				Plan 2															
				Plan 3															
3G	Plan 1		1320.4		4922.00 (Open Plan)														
	Plan 2											3533 (Photon 3G)							
	Plan 3											20526 (Photon3G+)							
4G	Plans																		
	Plan 1												66.4	124	239.00				
	Plan 2																		
6	Latency	Data <250ms	All Generations																
			2G (GSM)			149.78	219.7		193.00			227.77					154.00		
			3G				210.3		54.00										
			CDMA							63		231.50							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.9	99.18	100.00				
			2G (GSM)			97.29	99.2		99.67			99.93					99.95		
			3G				100		99.24										
			CDMA							98.1		95.88							
8	Drop rate :	≤5%	All Generations										2.2	4.8	1.55				
			2G (GSM)			0.58	0.7		1.22			1.33					4.29		
			3G				0.4		0.24										
			CDMA							1.2		0.46							
HSD									0.80										

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Telenor	Videocon	Vodafone				
West Bengal	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.95	100		99.99		100				94			99.45			
				2G (GSM)																
				3G											100.00					
				CDMA										100.00						
	2	Successful data transmission download attempts	>80%	All Generations											100					
				2G (GSM)	100.00	100		100.00						100.00				99.59		
				3G	100.00	100								100.00					98.39	
				CDMA							100		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations											100					
				2G (GSM)	100.00	100		100.00						100.00				97.92		
				3G	100.00	100								100.00					97.93	
				CDMA							100		100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						950 (Mblaze)		81.14 (IX-RNC_PAYG)		51 (Photon Whiz)					
					Plan 2						1634 (Mblaze ultra)									
					Plan 3															
				2G	Plan 1	110.97	99.3		101.00 (Open Plan)						78.59 (RNC_PAYG)	58 (EDGE)				63.67 (2GB Plan)
					Plan 2															
					Plan 3															
				3G	Plan 1	2355.20	2217.9								1084.85 (HSD)					1682.67 (5GB Plan)
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1758 (Mblaze)		130.96 (IX-RNC_PAYG)		79 (Photon Whiz)					
					Plan 2						2755 (Mblaze ultra)									
					Plan 3															
				2G	Plan 1	146.70	136.4		149.00 (Open Plan)						144.26 (RNC_PAYG)	125 (EDGE)				142.33 (2GB Plan)
Plan 2																				
Plan 3																				
3G				Plan 1	3857.07	3078.5								1887 (HSD)					5160.33 (5GB Plan)	
				Plan 2																
				Plan 3																
4G				Plans																
6	Latency	Data <250ms	All Generations											157.23						
			2G (GSM)	246.04	236.7		196.00						175.73				110.00			
			3G	68.63	47.3								32.09					59.67		
			CDMA							59		175.15								
7	PDP Context Activation Success Rate	≥95%	All Generations											98.23						
			2G (GSM)	97.34	99.3		98.59						99.62				99.92			
			3G	97.34	100								98.66					99.30		
			CDMA							99.3		97.92								
8	Drop rate :	≤5%	All Generations											1.04						
			2G (GSM)	0.00	3.2		1.11						4.43				4.62			
			3G	0.00	0.5								2.36					0.75		
			CDMA							1		1.15								

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.