

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

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status													
				Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone	
Andhra Pradesh	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.85	100		100.00						98.34	100		99.96	
			2G (GSM)						100.00								
			3G														
			CDMA						89.00								
				HSD													
				100.00													
	2	Successful data transmission download attempts	>80%	All Generations									100.00	100			
				2G (GSM)	100.00	100		100.00			100.00				100.00		
				3G	100.00	100		100.00									
				CDMA						100.00							
				HSD													
				100.00													
	3	Successful data transmission upload attempts	>75%	All Generations									100.00	100			
				2G (GSM)	100.00	100		100.00			100.00				100.00		
				3G	100.00	100		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								90.33 (RNC_PAYG)		59 (Photon Whiz)		
					Plan 2							619.67 (HSD)		1245 (Photon plus)			
Plan 3																	
2G				Plan 1	117.01	130.4		118.00 (Open Plan)				91.67 (RNC_PAYG)		72 (EDGE)	65.83		139.52 (Rs 125 plan with 1GB free)
				Plan 2													
				Plan 3													
3G				Plan 1	3539.63	1198.4		2176.00 (Open Plan)									
				Plan 2													
				Plan 3													
4G				Plans													
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								105.33 (RNC_PAYG)		71 (Photn Whiz)			
				Plan 2							971.33 (HSD)		1870 (photon plus)				
				Plan 3													
			2G	Plan 1	163.79	149.1		126.00 (Open Plan)				149.33 (RNC_PAYG)		106 (EDGE)	135.06		169.07 (Rs 125 plan with 1GB free)
				Plan 2													
				Plan 3													
			3G	Plan 1	5724.16	1552.1		4202.00 (Open Plan)									
				Plan 2													
				Plan 3													
			4G	Plans													
6	Latency	Data <250ms	All Generations										119.00	117			
			2G (GSM)	95.42	221.7		143.00			211.00					145.33		
			3G	12.83	63		27.00										
			CDMA							156.00							
			HSD						50.00								
			100.00														
7	PDP Context Activation Success Rate	≥95%	All Generations										97.69				
			2G (GSM)	90.70	99.9		99.87			99.93					99.70		
			3G	90.70	98.7		97.21										
			CDMA							97.92							
			HSD								97.92						
			100.00														
8	Drop rate :	≤5%	All Generations										0.90	4.52			
			2G (GSM)	1.86	1.2		0.68			1.86					2.69		
			3G	1.58	0.6		0.77										
			CDMA							0.36							
			HSD								1.04						

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	Uninor	Videocon	Vodafone				
Assam	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.66	100		100.00										99.99			
			2G (GSM)										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						
	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						
	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	157.80	126		77.00 (Open Plan)						67.55 (RNC_PAY G)				94.09 (pack @699)	
					Plan 2															
					Plan 3															
				3G	Plan 1	2380.10	1613.3								1066.26 (HSD)					
					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	183.58	180.6		114.00 (Open Plan)						126.63 RNC_PAY G				139.15 (pack @699)	
					Plan 2															
					Plan 3															
				3G	Plan 1	3467.80	3016.7								1979.85 (HSD)					
					Plan 2															
					Plan 3															
	6	Latency	Data <250ms	All Generations																
2G (GSM)				106.83	225.3		103.00						229.94				231.00			
3G				28.50	33.2								83.56							
CDMA																				
7	PDP Context Activation Success Rate	≥95%	All Generations																	
			2G (GSM)	99.85	99.5		99.59						99.62				99.90			
			3G	99.85	100								98.66							
			CDMA																	
8	Drop rate :	≤5%	All Generations																	
			2G (GSM)	0.95	0.8		0.13						5.04				2.19			
			3G	0.44	0.7								0.55							
			CDMA																	

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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	Uninor	Videocon	Vodafone		
Bihar and Jharkhand	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.91	100		100.00							97.22	100		99.99	
			2G											100.00				
			CDMA										98.00					
			HSD										100.00					
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100			
				2G (GSM)	100.00	99.6		100.00						100.00				100.00
				3G	100.00	100								96.03				
				CDMA										100.00				
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100			
				2G (GSM)	100.00	99.6		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)		51 (Photn Whiz)				
					Plan 2									635 (Photn plus)				
					Plan 3													
				2G	Plan 1	122.21	153.7		102 (Open Plan)					103.92 (RNC_PAYG)	38 (EDGE)	79.5		141.90 (VMC+VFL_3GB_30d_2G RC 199Y_2G)
					Plan 2													
					Plan 3													
				3G	Plan 1	2867.20	3346.5							830.30 (HSD)				
					Plan 2													
Plan 3																		
4G				Plans														
				Plan 1									117.22 (IX-RNC_PAYG)		72 (Photn Whiz)			
				Plan 2											1385 (Photon Plus)			
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1														
				Plan 2														
				Plan 3														
			2G	Plan 1	174.42	199.7		134 (Open Plan)					171.55 (RNC_PAYG)	110 (EDGE)	97.8		174 (VMC+VFL_3GB_30d_2G RC 199Y_2G)	
				Plan 2														
				Plan 3														
3G	Plan 1	4085.76	3485.2							1233.04 (HSD)								
	Plan 2																	
	Plan 3																	
6	Latency	Data <250ms	All Generations										105.27	124				
			2G (GSM)	102.83	244.8		242.00						111.08			115.00		
			3G	30.96	64								37.58					
			CDMA									165.20						
7	PDP Context Activation Success Rate	≥95%	All Generations										98.03					
			2G (GSM)	98.05	99.6		99.60						99.62			99.71		
			3G	98.05	100								98.66					
			CDMA									97.92						
8	Drop rate :	≤5%	All Generations										0.62	4.8				
			2G (GSM)	0.88	4.6		0.82						4.82			3.30		
			3G	0.55	0.3								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.

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	Uninor	Videocon	Vodafone				
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100										99.35				
	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%	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		99.3												81.39 (199 Unlimited 2GB)	
					Plan 2															
					Plan 3															
				3G	Plan 1		1921.7													1790 (650 Unlimited 3GB)
					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		199.1												150.48 (199 Unlimited 2GB)	
					Plan 2															
					Plan 3															
	3G	Plan 1		4504.4													2300.00 (650 Unlimited 3GB)			
Plan 2																				
Plan 3																				
4G	Plans																			
	6	Latency	Data <250ms	All Generations																
				2G (GSM)		241.8										121.53				
3G					39.3										24.51					
CDMA	Plan 1																			
	Plan 2																			
	Plan 3																			
7	PDP Context Activation Success Rate	≥95%	All Generations																	
			2G (GSM)		99.9											99.89				
			3G		100											99.55				
			CDMA																	
8	Drop rate :	≤5%	All Generations																	
			2G (GSM)		1.3												2.59			
			3G		0.2												0.87			
			CDMA																	

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	Uninor	Videocon	Vodafone			
Delhi	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	98.89	100		100.00	100.00		100.00				93.90			99.60		
			CDMA									100.00							
			GSM									100.00							
			HSD									99.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	100.00	99.8		100.00	97.75	99.90		99.97					98.51		
				3G		99.2			99.36				100.00					98.34	
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00					
				2G (GSM)	100.00	99.7		100.00	97.82	99.90		100.00					99.59		
				3G		98.2			98.90				100.00					99.41	
				CDMA									100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						756 (Mblaze)	86.87 (IX-RNC_PAYG)		65 (photon whiz)					
					Plan 2						1679 (Mblaze ultra)	758.15 (HSD)		1028 (photon plus)					
					Plan 3									2978 (photon Max)					
				2G	Plan 1	78.64	82.1		97 (Open Plan)	24.17			75.23 (IX-RNC_PAYG)						60.30 (Rs 125 Rental plan with 1GB free)
					Plan 2														
					Plan 3														
				3G	Plan 1		2051.9			215.25				1349.01 (HSD)					850.67 (Rs 250 Rental plan with 1GB free)
					Plan 2														
Plan 3																			
4G				Plans															
				CDMA	Plan 1							1417 (Mblaze)	117.17 (IX-RNC_PAYG)		82 (photon whiz)				
					Plan 2							2932 (Mblaze ultra)	660.95 (HSD)		1734 (Photon puls)				
Plan 3											3635 (Photon Max)								
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	111.04	130.2		155 (Open Plan)	74.23			144.32 (RNC_PAYG)				176.35 (Rs 125 Rental plan with 1GB free)			
				Plan 2															
				Plan 3															
			3G	Plan 1		2369.4			357.71			3007.65 (HSD)					3703.00 (Rs 250 Rental plan with 1GB free)		
				Plan 2															
				Plan 3															
6	Latency	Data <250ms	All Generations					125.67					66.00						
				2G (GSM)	140.05	173.3		124.00				107.44			234.00				
				3G		80.4						23.20			60.67				
				CDMA						64.00		157.08							
				HSD								39.71							
				All Generations						96.87						97.03			
			2G (GSM)		98.36	99.9		99.37				99.93				99.81			
			3G			100						99.10				99.12			
			CDMA							99.40		98.34							
			HSD									98.34							
			8		Drop rate :	≤5%	All Generations					1.69					1.26		
				2G (GSM)			1.05	1.4		1.82			3.90				1.20		
3G		0.9								0.91				0.58					
CDMA									1.20		0.49								
									0.43										

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	Uninor	Videocon	Vodafone				
Gujarat	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	100.00	100		100.00			100.00				96.94	100		99.69			
			2G (GSM)									100.00								
			CDMA									97.00								
			HSD									98.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100	97.55				
				2G (GSM)	91.22	100		100.00				100.00						98.76		
				3G				100.00											100.00	
				CDMA							100.00		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100	96.85				
				2G (GSM)	94.36	100		100.00				100.00						98.31		
				3G				100.00											100.00	
				CDMA							100.00		100.00							
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1087 (Mblaze)	77.98 (IX-RNC_PAYG)		83 (Photon Whiz)							
				Plan 2						1598 (Mblaze ultra)	589.37 (HSD)		830 (Photon plus)							
				Plan 3									1177 (Photon Max)							
			2G	Plan 1	120.83	65.7		43 (Open Plan)				69.54 (RNC_PAYG)		102 (EDGE)	54.61	144.10 (plan:STV Rs.125 (2.5GB))		34.81 (2G MI199)		
				Plan 2																
				Plan 3																
			3G	Plan 1				2473 (Open Plan)											2070.33 (3G MI850)	
				Plan 2											1196 (Photon 3G)					
				Plan 3											4649 (Photon3G+)					
			4G	Plans																
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					1835 (Mblaze)		110.46		85 (Photon Whiz)			
								Plan 2					3372 (Mblaze ultra)		1053.22		1183 (Photon plus)			
Plan 3												1517 (Photon Max)								
2G	Plan 1	165.66	143.5		130.00 (Open Plan)				126.63			127 (EDGE)	105.92	196.00 (plan:STV Rs.125 (2.5GB))		99.17 (2G MI199)				
	Plan 2																			
	Plan 3																			
3G	Plan 1				4732 (Open Plan)											5197.67 (3G MI850)				
	Plan 2											2358 (Photon 3G)								
	Plan 3											5440 (Photon3G+)								
4G	Plans																			
	6	Latency	Data <250ms	All Generations										58.00	143	241.00				
				2G (GSM)	101.54	242.3		103.00				243.01						112.33		
3G							76.00											27.00		
CDMA										90.00		191.28								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.70		99.99					
			2G (GSM)	96.74	99.2		100.00				99.93						99.94			
			3G				100.00											99.82		
			CDMA							99.20		98.34								
8	Drop rate :	≤5%	All Generations										1.50	4.70	1.34					
			2G (GSM)	0.61	2.3		0.16				0.47						3.31			
			3G				0.66											0.49		
			CDMA							1.30		0.52								
HSD										0.56										

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone		
HP	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.94	100		100.00							95.83			99.94	
			2G (GSM)										100.00					
			CDMA									100.00						
			HSD									100.00						
	2	Successful data transmission download attempts	>80%	All Generations										99.90				
				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										99.70				
				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)		50 (Photon Whiz)				
					Plan 2									621 (Photon Plus)				
					Plan 3													
				2G	Plan 1	83.76	79.3		99.00 (Open Plan)					90.63 (RNC_PAYG)	58 (EDGE)			119.14 (Talk Invitation 50)
					Plan 2													
					Plan 3													
				3G	Plan 1		1764.7		3033 (Open Plan)					1172.56 (HSD)				
					Plan 2													
					Plan 3													
				4G	Plans													
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							120.71 (IX-RNC_PAYG)		74 (Photon Whiz)				
					Plan 2									742 (Photon plus)				
					Plan 3													
				2G	Plan 1	147.52	153.9		151 (Open Plan)					141.68 (RNC_PAYG)	107 (EDGE)			175.64 (Talk Invitation 50)
Plan 2																		
Plan 3																		
3G				Plan 1		3297.3		4848 (Open Plan)					2473.55 (HSD)					
				Plan 2														
				Plan 3														
4G				Plans														
6	Latency	Data <250ms	All Generations										119.00					
			2G (GSM)	132.67	212.3		206.00					134.98			120.65			
			3G		103		120.00					76.19						
			CDMA							182.68								
			HSD															
7	PDP Context Activation Success Rate	≥95%	All Generations										98.01					
			2G (GSM)	99.80	99.9		99.07					99.85			99.62			
			3G		99.9		98.66					98.23						
			CDMA							97.92								
			HSD															
8	Drop rate :	≤5%	All Generations										1.11					
			2G (GSM)	0.70	1.1		0.65					4.41			3.97			
			3G		0.6		1.34					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.

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	Uninor	Videocon	Vodafone				
Haryana	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	96.43	98		100.00							99.64			99.43			
			2G (GSM)									100.00								
			CDMA									100.00								
			HSD									100.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00		97.73				
				2G (GSM)	92.72	100		98.99				99.90						99.50		
				3G				100.00											99.50	
				CDMA								100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										100.00		97.68				
				2G (GSM)	92.49	100		100.00				100.00						99.17		
				3G				100.00											99.50	
				CDMA								100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							76.07 (IX-RNC_PAYG)		58.66 (Photon Whiz)						
					Plan 2						760.88 (HSD)			302.3 (Photon Plus)						
					Plan 3															
				2G	Plan 1	50.02	92		106 (Open Plan)				66.43 (RNC_PAYG)		65.8 (EDGE)	137.91 (STV Rs.109 1GB 31 days)	75.53 (30MB with Rs5)			
					Plan 2															
					Plan 3															
				3G	Plan 1				3219 (Open Plan)						1265.63 (Photon 3G)				2353.22 (1GB@ Rs 250)	
					Plan 2										1637.46 (Photon 3G)					
					Plan 3										3406.04 (Photon3G+)					
				4G	Plans															
					CDMA	Plan 1								111.43 (IX-RNC_PAYG)		66.64 (Photon Whiz)				
						Plan 2								924.59 (HSD)		693.94 (Photon Plus)				
	Plan 3																			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	96.08	184.6		150 (Open Plan)			97.35 (RNC_PAYG)		98.58 (EDGE)	218.00 (STV Rs.109 1GB 31 days)	130.99 (30MB with Rs5)				
					Plan 2															
					Plan 3															
				3G	Plan 1				3781 (Open Plan)						1917.06 (Photon 3G)			3564.11 (1GB@ Rs 250)		
					Plan 2										2342.23 (Photon 3G)					
					Plan 3										4605.27 (Photon3G+)					
	4G	Plans																		
6	Latency	Data <250ms	All Generations										82.00		227.00					
			2G (GSM)	118.18	216.3		157.00				102.60					113.10				
			3G				33.00										31.05			
			CDMA								176.73									
			HSD								47.12									
7	PDP Context Activation Success Rate	≥95%	All Generations										98.60		100.00					
			2G (GSM)	99.91	99.8		98.80				99.93					99.92				
			3G				98.36										99.63			
			CDMA								98.34									
			HSD								98.34									
8	Drop rate :	≤5%	All Generations										1.50		1.51					
			2G (GSM)	0.00	0.8		0.82				1.51					3.13				
			3G				1.56										1.58			
			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	Uninor	Videocon	Vodafone			
Jammu and Kashmir	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.74	100		99.99										99.97		
			2G (GSM)									100.00							
			HSD																
	2	Successful data transmission download attempts	>80%	All Generations															
				2G (GSM)	100.00	100		100.00					100.00					97.76	
				3G	100.00	100		100.00					100.00						
				CDMA															
	3	Successful data transmission upload attempts	>75%	All Generations															
				2G (GSM)	100.00	100		100.00					100.00					98.80	
				3G	100.00	100		100.00					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	154.86	82.2		106.00 (Open Plan)					116.65 (RNC_PAYG)					56.1 (Plan-199_1GB)
				Plan 2															
				Plan 3															
				3G	Plan 1	3016.96	1399.5		3135.00 (Open Plan)					1621.24 (HSD)					
				Plan 2															
				Plan 3															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	4G	Plans														
				CDMA	Plan 1														
				Plan 2															
				Plan 3															
				2G	Plan 1	168.34	184.6		147.00 (Open Plan)					211.18 (RNC_PAYG)					110.08 (Plan-199_1GB)
				Plan 2															
				Plan 3															
3G				Plan 1	3327.14	3566.9		3686 (Open Plan)					3947.09 (HSD)						
Plan 2																			
Plan 3																			
6	Latency	Data <250ms	All Generations																
			2G (GSM)	108.33	229		178.00					125.88					156.16		
			3G	121.50	92.3		116.00					95.33							
			CDMA																
			HSD																
7	PDP Context Activation Success Rate	≥95%	All Generations																
			2G (GSM)	99.06	100		99.44					99.93					99.95		
			3G	99.06	99		98.96					99.10							
			CDMA																
			HSD																
8	Drop rate :	≤5%	All Generations																
			2G (GSM)	1.40	1.2		0.18					2.88					2.39		
			3G	0.80	0.6		1.12					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	Uninor	Videocon	Vodafone			
Kolkata	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.91	99		99.99			100.00				97.12			98.72		
			2G (GSM)										100.00						
			CDMA									100.00							
			HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	100.00	100		100.00						100.00			98.31		
				3G	100.00													98.43	
				CDMA							100.00		100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00					
				2G (GSM)	100.00	100		100.00						100.00			98.66		
				3G	100.00													98.25	
				CDMA							100.00		100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						360 (Mblaze)	100.83 (IX-RNC_PAYG)		51 (Photon Whiz)					
					Plan 2						1205 (Mblaze ultra)	877.69 (HSD)		853 (Photon plus)					
					Plan 3									1324 (Photon Max)					
				2G	Plan 1	98.39	128.5		118.00 (Open Plan)					89.43 (RNC_PAYG)	23 (EDGE)			72.59 (Postpaid PayG Unlimited)	
					Plan 2														
					Plan 3														
				3G	Plan 1	2003.54									1495.85 (HSD)				1447.67 (Postpaid PayG Unlimited)
					Plan 2														
					Plan 3														
				4G	Plans														
					Plan 1								1583 (Mblaze)	123.73 (IX-RNC_PAYG)		71 (Photon Whiz)			
					Plan 2								2488 (Mblaze ultra)	960.22 (HSD)		1290 (Photon plus)			
	2G	Plan 1	153.65	172.5		156.00 (Open Plan)						149.08 (RNC_PAYG)	103 (EDGE)			134.83 (Postpaid PayG Unlimited)			
		Plan 2																	
		Plan 3																	
	3G	Plan 1	3904.43										2315 (Photon max)			5126.13 (Postpaid PayG Unlimited)			
		Plan 2																	
		Plan 3																	
4G	Plans																		
	Plan 1																		
	Plan 2																		
6	Latency	Data <250ms	All Generations										93.50						
			2G (GSM)	123.27	220.7		138.00						96.00			115.39			
			3G	30.72									36.00			50.96			
			CDMA							54.00		180.36							
			HSD									45.66							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.34						
			2G (GSM)	99.19	99.1		98.85						99.62			99.87			
			3G	99.19									98.66			99.01			
			CDMA							99.20		97.92							
8	Drop rate :	≤5%	All Generations										1.27						
			2G (GSM)	0.95	3.3		0.86						4.70			1.84			
			3G	1.13									0.74			0.71			
			CDMA							0.90		0.19							
										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	Uninor	Videocon	Vodafone					
Kerala	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	98.14	99		100.00			100.00				96.21			99.57				
			2G (GSM)									100.00									
			CDMA																		
			HSD									100.00									
	2	Successful data transmission download attempts	>80%	All Generations										100.00							
				2G (GSM)	100.00	100		100.00				99.94						98.41			
				3G	100.00			100.00													
				CDMA							100.00		100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										100.00							
				2G (GSM)	100.00	100		100.00				100.00						98.56			
				3G	100.00			100.00													
				CDMA							100.00		99.83								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						949 (Mblaze)			95.23 (IX-RNC_PAYG)			72 (photon Whiz)				
					Plan 2						1608 (Mblaze ultra)			704.07 (HSD)			934 Photon Plus)				
					Plan 3												1552 (Photon Max)				
				2G	Plan 1	39.80	79.5			104.00 (Open Plan)						87.09 (RNC_PAYG)			45 (EDGE)		76.95 (3GB VMC 199 plan)
					Plan 2																
					Plan 3																
				3G	Plan 1	857.50				2041 (Open Plan)											
					Plan 2														1414 (photon 3G)		
					Plan 3														4057 (Photon3G+)		
				4G	Plans																
					CDMA	Plan 1							1676.00				120.61 (IX-RNC_PAYG)			84 (Photon Whiz)	
						Plan 2							3041.00				908.55 (HSD)			1937 (Photon plus)	
	Plan 3														2878 (Photon max)						
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	189.73	142.1							171.97 (RNC_PAYG)			130 (EDGE)		113.32 (3GB VMC 199 plan)		
					Plan 2																
					Plan 3																
3G				Plan 1	2355.20				3127 (Open Plan)												
				Plan 2														4298 (Photon 3G)			
				Plan 3														6129 (Photon 3G+)			
4G	Plans																				
	6	Latency	Data <250ms	All Generations										73.00							
				2G (GSM)	81.00	214.8		137.00				108.87						125.00			
3G				24.33			62.00														
CDMA										86.00		161.47									
7	PDP Context Activation Success Rate	≥95%	All Generations										98.40								
			2G (GSM)	96.74	100		99.80				99.93						99.71				
			3G	96.74			98.92														
			CDMA							99.00		95.88									
8	Drop rate :	≤5%	All Generations										1.20								
			2G (GSM)	2.69	0.6		0.79				3.39						3.49				
			3G	0.00			1.46														
			CDMA							1.30		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	Uninor	Videocon	Vodafone				
Karnataka	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.80	100		100.00			100.00				98.48			92.55			
			2G (GSM)									100.00								
			CDMA									100.00								
			HSD									100.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00				100.00						98.98		
				3G	100.00	100														
				CDMA							100.00		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00				100.00						98.24		
				3G	100.00	100														
				CDMA							100.00		100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						758 (Mblaze)	62.45 (IX-RNC_PAYG)		41 (Photon Whiz)						
					Plan 2						1077 (Mblaze ultra)	495.45 (HSD)		695.67 (Photon Plus )						
					Plan 3									1017 (Photon Max)						
				2G	Plan 1	131.01	109.3			114.00 (Open Plan)				59.98 (RNC_PAYG)		57.33 (EDGE)				61.46 (2GB Unlimited @ MRP 199)
					Plan 2															
					Plan 3															
				3G	Plan 1	2756.94	1060.2										1261 (Photon 3G)			
					Plan 2												1586 (Photon3G+)			
					Plan 3															
				4G	Plans															
					CDMA	Plan 1							1348 (Mblaze)		114.81 (IX-RNC_PAYG)		64.33 (Photon Whiz)			
						Plan 2								2458 (Mblaze ultra)		1025.93 (HSD)		1221.33 (Photon plus)		
	Plan 3												1595.33 (Photon Max)							
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	175.14	134.5						101.78 (RNC_PAYG)		108 (EDGE)			145.30 (2GB Unlimited @ MRP 199)		
					Plan 2															
					Plan 3															
3G				Plan 1	8002.41	1954.2										3060 (Photon 3G)				
				Plan 2												3638 (Photon3G+)				
				Plan 3																
4G	Plans																			
	6	Latency	Data <250ms	All Generations										78.60						
				2G (GSM)	92.95	118.4		135.00				54.64					224.94			
3G				27.78	60.5															
CDMA										131.00		208.36								
7	PDP Context Activation Success Rate	≥95%	All Generations										99.00							
			2G (GSM)	96.74	98.2		99.24				99.69					99.93				
			3G	96.74	99.2															
			CDMA							98.80		95.88								
8	Drop rate :	≤5%	All Generations										1.40							
			2G (GSM)	1.81	1.3		0.54				1.82					2.84				
			3G	1.93	0.5															
			CDMA							0.90		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	Uninor	Videocon	Vodafone			
Maharashtra	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.99	100									97.82	100		99.37		
			2G (GSM)				100.00					100.00							
			CDMA									100.00							
			HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100				
				2G (GSM)	100.00	98.2		100.00				99.89					99.44		
				3G				100.00										100.00	
				CDMA								100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100				
				2G (GSM)	100.00	98.6		100.00				99.97					99.18		
				3G				100.00										99.18	
				CDMA								100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							79.84 (X-RNC_PAYG)		42.14 (Photon whiz)					
					Plan 2						630.52 (HSD)		1203.7 (Photon plus)						
					Plan 3														
				2G	Plan 1	71.32	103.2		93.00 (Open Plan)			71.66 (RNC_PAYG)		57.2 (EDGE)	50.72		98.96 (Rs 599 Unlimited 2G Data plan)		
					Plan 2														
					Plan 3														
				3G	Plan 1				1905.00 (Open Plan)									1797.00 (Unlimited 2G& 3G Data plan)	
					Plan 2											4337.01 (Photon 3G)			
					Plan 3														
				4G	Plans														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							111.15 (X-RNC_PAYG)		51.6 (Photon whiz)					
					Plan 2						993.24 (HSD)		1671.53 (Photon plus)						
					Plan 3														
				2G	Plan 1	103.94	159.2		147.00 (Open Plan)			136.68 (RNC_PAYG)		121.29 (EDGE)	127.23		175.33 (Rs 599 Unlimited 2G Data plan)		
Plan 2																			
Plan 3																			
3G				Plan 1				3077 (Open Plan)									3261.33 (Unlimited 2G& 3G Data plan)		
				Plan 2											4564.01 (photon 3G)				
				Plan 3															
4G	Plans																		
6	Latency	Data <250ms	All Generations										70.70	141					
			2G (GSM)	117.50	247		86.00				186.02				165.05				
			3G				123.00								41.21				
			CDMA								171.29								
			HSD								44.24								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.60	95					
			2G (GSM)	96.74	99.4		100.00				99.93				99.73				
			3G				100.00								99.49				
			CDMA								98.34								
			HSD								98.34								
8	Drop rate :	≤5%	All Generations										1.90	4.63					
			2G (GSM)	2.11	2.1		1.07				1.54				0.73				
			3G				2.13								0.27				
			CDMA								0.10								
			HSD								1.39								

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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone			
Madhya Pradesh	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	100.00	100		100.00							97.11			99.78		
			2G (GSM)											100.00					
			CDMA										100.00						
			HSD										99.00						
	2	Successful data transmission download attempts	>80%	All Generations										100.00		97.71			
				2G (GSM)	99.83	98.5		99.86						100.00				98.44	
				3G				100.00						100.00					
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00		97.56			
				2G (GSM)	99.72	98		100.00						100.00				96.89	
				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)		56 (Photon Whiz)					
				Plan 2								545.36 (HSD)		302 (Photon plus)					
				Plan 3															
				2G	Plan 1	103.92	91.2		72.00 (Open Plan)					78.67 (RNC_PAYG)	79 (EDGE)	29.33 (plan:STV Rs.97 (675 MB)	62.67 (MBB_C_V_199_30d_D2 GB_FU_2G)		
				Plan 2															
				Plan 3															
				3G	Plan 1				1964.00 (Open Plan)					1444.00 (HSD)					
				Plan 2											1657 (Photon 3G)				
Plan 3																			
4G				Plans															
5				Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							104.83 (IX-RNC_PAYG)		72 (Photon Whiz)			
						Plan 2								844.45 (HSD)		1051 (Photon plus)			
	Plan 3																		
	2G	Plan 1	135.44			131.8		129.00 (Open Plan)					168.95 (RNC_PAYG)	115 (EDGE)	173.00 (plan:STV Rs.97 (675 MB)	146.11 (MBB_C_V_199_30d_D2 GB_FU_2G)			
	Plan 2																		
	Plan 3																		
	3G	Plan 1						3669 (Open Plan)					3683.14 (HSD)						
	Plan 2													2606 ( Photon 3G)					
	Plan 3																		
	4G	Plans																	
	6	Latency	Data <250ms			All Generations										83.40		232.00	
						2G (GSM)	100.04	119		113.00						168.87			150.42
3G							91.00						105.33						
CDMA												172.04							
HSD												94.60							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.20		99.70				
			2G (GSM)	96.74	99.7		99.38					99.88	99.88			99.86			
			3G				98.14						98.31						
			CDMA									97.92							
			HSD									97.92							
8	Drop rate :	≤5%	All Generations										1.60		1.44				
			2G (GSM)	2.99	2		0.93					4.45				2.62			
			3G				1.49						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	Uninor	Videocon	Vodafone			
Mumbai	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.88	100		100.00	95.82						98.05			97.92		
			2G (GSM)									100.00							
			CDMA									100.00							
			HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	99.54	100		100.00	96.68			100.00					99.33		
				3G		100			99.94									99.17	
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00					
				2G (GSM)	99.51	100		100.00	99.78			100.00					98.83		
				3G		100			100.00									99.08	
				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)		25 (Photon Whiz)					
					Plan 2							556.74 (HSD)		350 (Photon plus)					
					Plan 3														
				2G	Plan 1	59.88	113.4		87.00 (Open Plan)	32.46				96.95 (RNC_PAYG)		76 (EDGE)			123.01 (VMC 699UL)
					Plan 2														
					Plan 3														
				3G	Plan 1		2376			587.26				3316.40					2149.21 (MI 8GB)
					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							105.12 (IX-RNC_PAYG)		59 (Photon whiz)					
					Plan 2							1221.98 (HSD)		801 (Photon plus)					
					Plan 3														
				2G	Plan 1	115.74	186.7		151.00 (Open Plan)	60.61				191.75 (RNC_PAYG)		122 (EDGE)			170.11 (VMC 699UL)
Plan 2																			
Plan 3																			
3G				Plan 1		4527.6			922.58				3719.27					9035.51 (MI 8GB)	
				Plan 2															
				Plan 3															
4G				Plans															
				Plan 1															
				Plan 2															
6	Latency	Data <250ms	All Generations										93.51						
			2G (GSM)	147.61	108.3		112.00				154.63				71.67				
			3G		28.2			165.85				24.55				16.67			
			CDMA								162.00								
7	PDP Context Activation Success Rate	≥95%	All Generations					99.83					98.37						
			2G (GSM)	96.74	99.3		99.96				99.93				99.36				
			3G		100							99.38				98.96			
			CDMA									98.34							
			HSD									98.34							
8	Drop rate :	≤5%	All Generations					2.22					1.54						
			2G (GSM)	1.09	3		0.71				1.59				3.08				
			3G		0.2							0.98				0.65			
			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	Uninor	Videocon	Vodafone			
North East	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.91	100		100.00										99.98		
			2G (GSM)										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					
	3	Successful data transmission upload attempts	>75%	All Generations															
				2G (GSM)	100.00	100		100.00						100.00				99.99	
				3G	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															
				Plan 3															
				2G	Plan 1	115.19	168.3		80.00 (Open Plan)						57.89 (RNC_PAY G)				93.50 (pack @699)
				Plan 2															
				Plan 3															
				3G	Plan 1	1331.85	2276								1092.53 (HSD)				
				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	188.73	215.6		100.00 (Open Plan)						119.27 (RNC_PAY G)				135.33 (pack @699)	
Plan 2																			
Plan 3																			
3G				Plan 1	3405.62	3294.3								1950.98 (HSD)					
Plan 2																			
Plan 3																			
6	Latency	Data <250ms	All Generations																
			2G (GSM)	123.17	233		113.00						228.02				241.67		
			3G	36.83	36.5								82.97						
			CDMA																
7	PDP Context Activation Success Rate	≥95%	All Generations																
			2G (GSM)	99.80	99.3		99.42						99.62				99.90		
			3G	99.80	100								98.66						
			CDMA																
8	Drop rate :	≤5%	All Generations																
			2G (GSM)	1.40	1.7		0.19						4.24				2.49		
			3G	0.75	1.2								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	Uninor	Videocon	Vodafone			
Orissa	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.82	99		99.99						97.22			99.99			
			2G (GSM)										100.00						
			CDMA									96.00							
			HSD																
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	100.00	100		100.00						100.00			99.73		
				3G	100.00									100.00					
				CDMA								100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00					
				2G (GSM)	100.00	100		100.00						100.00			99.93		
				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)		66 (Photon whiz)					
					Plan 2									1265 (Photon plus)					
					Plan 3														
				2G	Plan 1	83.04	112.2		61.00 (Open Plan)						72.88 (RNC_PAYG)	79 (EDGE)			57.45 (Plan-99 1GB)
					Plan 2														
					Plan 3														
				3G	Plan 1	1875.13										1113.00 (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)		71 (Photon whiz)					
					Plan 2									1518 (Photon plus)					
					Plan 3														
				2G	Plan 1	139.89	174.5		119.00 (Open Plan)						121.19 (RNC_PAYG)	104 (EDGE)			119.42 (Plan-99 1GB)
Plan 2																			
Plan 3																			
3G				Plan 1	2962.85										2457.33 (HSD)				
				Plan 2															
				Plan 3															
4G				Plans															
6	Latency	Data <250ms	All Generations										106.08						
			2G (GSM)	121.13	120.7		207.00						126.40			138.93			
			3G	68.42															
			CDMA								187.66								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.30						
			2G (GSM)	99.05	99.8		99.41						99.62			99.59			
			3G	99.05									98.66						
			CDMA								98.34								
			HSD																
8	Drop rate :	≤5%	All Generations										0.67						
			2G (GSM)	0.79	1.9		1.86						2.10			2.75			
			3G	0.64															
			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	Uninor	Videocon	Vodafone			
Punjab	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.92	99		100.00							97.06			99.26		
			2G (GSM)									100.00							
			CDMA									100.00							
			HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	99.95	100		100.00					100.00					100.00	
				3G	99.95			100.00						100.00					
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00					
				2G (GSM)	99.78	100		100.00					100.00					100.00	
				3G	99.78			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							99.07 (IX-RNC_PAYG)		53.21 (Photon whiz)					
					Plan 2							632.21 (HSD)		517.95 (Photon plus)					
					Plan 3									2165.33 (Photon max)					
				2G	Plan 1	96.49	45.2		101.00 (Open Plan)				125.19 (RNC_PAYG)		54.15 (EDGE)				126.71 (Unlimited @199)
					Plan 2														
					Plan 3														
				3G	Plan 1	2460.58			1251.00 (Open Plan)				1763.39 (HSD)			1342.53 (Photon 3G)			
					Plan 2											2367.18 (Photon 3G)			
Plan 3															5049.17 (Photon 3G+)				
4G				Plans															
				Plan 1															
				Plan 2															
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							117.60 (IX-RNC_PAYG)		76.41 (Photon whiz)						
				Plan 2							1093.46 (HSD)		1087.76 (Photon plus)						
				Plan 3									3079.85 (Photon Max)						
			2G	Plan 1	146.70	185.6		152.00 (Open Plan)				166.76 (RNC_PAYG)		98.39 (EDGE)				166.16 (Unlimited @199)	
				Plan 2															
				Plan 3															
			3G	Plan 1	3338.88			3329.00 (Open Plan)				2943.42 (HSD)			1812.81 (Photon 3G)				
				Plan 2											3394.15 (Photon 3G)				
				Plan 3											5635.86 (Photon3G+)				
4G	Plans																		
	Plan 1																		
	Plan 2																		
6	Latency	Data <250ms	All Generations										70.50						
			2G (GSM)	123.62	184.3		207.00				217.00					82.76			
			3G	55.10			110.00					39.00							
			CDMA									180.00							
			HSD									53.00							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.30						
			2G (GSM)	97.28	99.9		100.00				99.93					99.72			
			3G	97.28			100.00					99.10							
			CDMA									98.34							
			HSD									98.34							
8	Drop rate :	≤5%	All Generations										2.60						
			2G (GSM)	0.90	0.8		1.59				1.91					1.57			
			3G	1.74			1.36					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	Uninor	Videocon	Vodafone			
Rajasthan	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.92	100		100.00			100.00				97.50			99.83		
			2G (GSM)									100.00							
			CDMA									87.00							
			HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	99.37	100		100.00				99.23					100.00		
				3G		100							100.00						
				CDMA							100.00		100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00					
				2G (GSM)	98.96	100		100.00				98.45					100.00		
				3G		100							100.00						
				CDMA							100.00		100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							990 (Mblaze)		86.71 (IX-RNC_PAYG)		73 (Photon whiz)			
					Plan 2							1451 (Mblaze ultra)		534.60 (HSD)		720 (Photon plus)			
					Plan 3														
				2G	Plan 1	62.62	70.6			113.00 (Open Plan)					77.03 (RNC_PAYG)		85 (EDGE)		122.51 (Unlimited GB VL+VMC @599)
					Plan 2														
					Plan 3														
				3G	Plan 1		1152.7								1411.23 (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							1448 (Mblaze)		113 (IX-RNC_PAYG)		83 (Photon whiz)			
					Plan 2							2840 (Mblaze ultra)		875.60 (HSD)		1243 (Photon plus)			
					Plan 3														
				2G	Plan 1	142.96	116.5			146.00 (Open Plan)					142.05 (RNC_PAYG)		121 (EDGE)		176.43 (Unlimited GB VL+VMC @599)
Plan 2																			
Plan 3																			
3G				Plan 1		2476.3								2401.57 (HSD)					
				Plan 2															
				Plan 3															
4G				Plans															
				Plan 1															
				Plan 2															
6	Latency	Data <250ms	All Generations										97.10						
			2G (GSM)	115.50	206.3		100.00				238.00				128.33				
			3G		191.8							50.33							
			CDMA							67.00		170.00							
7	PDP Context Activation Success Rate	≥95%	All Generations										98.40						
			2G (GSM)	98.74	99.9		98.94				99.69				99.79				
			3G		100							99.20							
			CDMA							99.10		98.34							
			HSD									98.34							
8	Drop rate :	≤5%	All Generations										1.64						
			2G (GSM)	0.90	1.1		0.15				1.98				3.41				
			3G		0.8							1.08							
			CDMA							0.80		0.45							
										0.23									

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	Uninor	Videocon	Vodafone				
Tamilnadu	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.58	100		100.00			100.00				97.80			99.75			
			2G (GSM)									100.00								
			CDMA									100.00								
			HSD									100.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00				100.00						100.00		
				3G	100.00	100													100.00	
				CDMA							100.00		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					99.91					100.00		
				3G	100.00	100													100.00	
				CDMA							100.00		99.97							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1522 (Mblaze)		59.11 (X-RNC_PAYG)		56 (Photon whiz)					
					Plan 2						1692 (Mblaze ultra)		516.41 (HSD)		538 (Photon plus)					
					Plan 3										1975 (Photon max)					
				2G	Plan 1	149.19	101.2			92.00 (Open Plan)				60.42 (RNC_PAYG)		38 (EDGE)				79.71 (199 Unlimited 2GB)
	Plan 2																			
	Plan 3																			
	3G	Plan 1	2519.04	1120.8														1832.96 (650 Unlimited 3GB)		
		Plan 2																		
		Plan 3																		
	4G	Plans																		
		Plans																		
		Plans																		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						2167 (Mblaze)		104.4 (X-RNC_PAYG)		72 (Photon whiz)					
					Plan 2						2573 (Mblaze ultra)		930.83 (HSD)		1079 (Photon plus)					
					Plan 3										2611 (Photon Max)					
				2G	Plan 1	190.96	141.9			137.00 (Open Plan)				139.14 (RNC_PAYG)		90 (EDGE)				136.41 (199 Unlimited 2GB)
Plan 2																				
Plan 3																				
3G				Plan 1	3532.80	1886.7														2355.20 (650 Unlimited 3GB)
				Plan 2																
				Plan 3																
4G				Plans																
	Plans																			
	Plans																			
6	Latency	Data <250ms	All Generations										87.54							
			2G (GSM)	96.30	233		117.00				114.56						246.00			
			3G	54.47	81.4													65.33		
			CDMA							79.00		155.60								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.46							
			2G (GSM)	96.74	100		99.81				99.93						99.84			
			3G	96.74	100													99.71		
			CDMA							99.10		97.92								
8	Drop rate :	≤5%	All Generations										0.97							
			2G (GSM)	1.06	0.7		1.85				0.49						4.05			
			3G	1.14	0.3													0.54		
			CDMA							1.80		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	Uninor	Videocon	Vodafone				
Uttar Pradesh (East)	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.95	99		100.00							97.21	100		99.34			
			2G (GSM)									100.00								
			CDMA									100.00								
			HSD									97.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100					
				2G (GSM)	100.00	100		100.00					99.83				99.48			
				3G	100.00			100.00										99.62		
				CDMA									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100					
				2G (GSM)	100.00	100		100.00					99.94				99.32			
				3G	142.00			100.00										99.52		
				CDMA									100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									91.55 (IX-RNC_PAYG)		53.67 (Photon Whiz)				
					Plan 2								618.85 (HSD)		645.33 (Photon plus)					
					Plan 3										1860.67 (Photon Max)					
				2G	Plan 1	142.00	128			107.00 (Open Plan)				87.05 (RNC_PAYG)		30.72 (EDGE)	72.3		82.86 (Rs 1599 12 GB free)	
					Plan 2															
					Plan 3															
				3G	Plan 1	2508.80				2122 (Open Plan)										2535.69 (Rs 1599 12 GB free)
					Plan 2															
					Plan 3															
				4G	Plans															
					Plans															
					Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									105.74 (IX-RNC_PAYG)		79.78 (Photon whiz)				
					Plan 2								873.85 (HSD)		1100.17 (Photon plus)					
					Plan 3										2220.98 (Photon Max)					
				2G	Plan 1	212.00	160.5			119.00 (Open Plan)				171.02 (RNC_PAYG)		98.50 (EDGE)	85.5		130.15 (Rs 1599 12 GB free)	
Plan 2																				
Plan 3																				
3G				Plan 1	3826.35				3148 (Open Plan)										3824.43 (Rs 1599 12 GB free)	
				Plan 2																
				Plan 3																
4G				Plans																
				Plans																
				Plans																
6	Latency	Data <250ms	All Generations										103.63	123						
			2G (GSM)	190.33	234.5		173.00					136.11				222.00				
			3G	39.50			101.00										58.33			
			CDMA									161.84								
			HSD									44.95								
7	PDP Context Activation Success Rate	>95%	All Generations										98.46							
			2G (GSM)	97.89	99.5		98.01					99.69				99.72				
			3G	97.89			98.35										99.55			
			CDMA									98.34								
			HSD									98.34								
8	Drop rate :	≤5%	All Generations										1.85	4.9						
			2G (GSM)	0.52	1.2		0.96					0.16				4.00				
			GSM OSS									2.27								
			3G	0.45			1.68										0.63			
			CDMA									0.48								
			CDMA plan 2																	
			HSD test																	
HSD oss									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.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Uttar Pradesh (West)	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.96	100		100.00			100.00				98.19	100		99.80			
			2G (GSM)									100.00								
			CDMA									90.00								
			HSD									99.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100					
				2G (GSM)	97.33	99.7		100.00				100.00						100.00		
				3G		100		100.00												
				CDMA							99.90		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100					
				2G (GSM)	94.67	100		100.00				100.00						100.00		
				3G		99.7		100.00												
				CDMA							99.90		100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						660 (Mblaze)	91.53 (IX-RNC_PAYG)		34 (Photon whiz)						
					Plan 2						1294 (Mblaze ultra)	676.96 (HSD)		588 (Photon Plus)						
					Plan 3									1267 (Photon Max)						
				2G	Plan 1	85.88	42		110.00 (Open Plan)				112.38 (RNC_PAYG)		59 (EDGE)	79.3		91.78 (250 with 1 GB Data)		
					Plan 2															
					Plan 3															
				3G	Plan 1		1146.76		2173 (Open Plan)							1009 (Photon 3G)				
					Plan 2											3240 (Photon 3G)				
					Plan 3											4331 (Photon3G+)				
				4G	Plans															
					CDMA	Plan 1							1390 (Mblaze)		108.43 (IX-RNC_PAYG)		68 (Photon whiz)			
						Plan 2							2342 (Mblaze ultra)		970.94 (HSD)		1142 (Photon plus)			
	Plan 3												2389 (Photon Max)							
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	147.22	134.1		132.00 (Open Plan)				164.86 (RNC_PAYG)		91 (EDGE)	99.4		146.98 (250 with 1 GB Data)		
					Plan 2															
					Plan 3															
3G				Plan 1		3741.6		4431 (Open Plan)							1701 (Photon 3G)					
				Plan 2											4125 (Photon 3G)					
				Plan 3											5474 (Photon3G+)					
4G	Plans																			
6	Latency	Data <250ms	All Generations										68.00	121						
			2G (GSM)	146.23	214.7		120.00				227.77					130.75				
			3G		205.7		59.00													
			CDMA							67.00		231.50								
			HSD									74.05								
7	PDP Context Activation Success Rate	≥95%	All Generations										97.90							
			2G (GSM)	91.38	98.3		99.84				99.93					99.79				
			3G		100		99.55													
			CDMA							99.40		95.88								
			HSD									95.88								
8	Drop rate :	≤5%	All Generations										2.20	4.3						
			2G (GSM)	0.53	0.9		0.89				1.33					3.49				
			3G		0.6		0.98													
			CDMA							0.70		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	Uninor	Videocon	Vodafone				
West Bengal	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.97	100		99.98			100.00			100.00				99.31			
			2G (GSM)										100.00							
			CDMA									100.00								
			HSD									100.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					100.00				99.88			
				3G	100.00	100							100.00		100.00			98.21		
				CDMA							100.00		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					100.00				98.42			
				3G	100.00	100							100.00		100.00			98.19		
				CDMA							100.00		100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						746 (Mblaze)		81.14 (IX-RNC_PAYG)		84 (Photon whiz)					
					Plan 2						1423 (Mblaze ultra)									
					Plan 3															
				2G	Plan 1	113.35	123.2			98.00 (Open Plan)					78.59 (RNC_PAYG)	66 (EDGE)			63.26 (2GB paln)	
					Plan 2															
					Plan 3															
				3G	Plan 1	2461.01	1895.1									1084.85 (HSD)			899.87( 5 GB paln)	
					Plan 2															
					Plan 3															
				4G	Plans															
					Plan 1								1149 (Mblaze)		130.96 (IX-RNC_PAYG)		88 (Photon Whiz)			
					Plan 2								2439 (Mblaze ultra)							
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	176.84	156.1		145.00 (Open Plan)					144.26 (RNC_PAYG)	114 (EDGE)			129.33 (2 GB paln)		
					Plan 2															
					Plan 3															
				3G	Plan 1	4471.81	2961.8									1887.00 (HSD)			4940.17 (5 GB paln)	
Plan 2																				
Plan 3																				
6	Latency	Data <250ms	All Generations										158.33							
			2G (GSM)	180.87	239.7		188.00					175.73			160.33					
			3G	61.33	56.5							32.09			74.00					
7	PDP Context Activation Success Rate	≥95%	All Generations										98.24							
			2G (GSM)	99.53	99.6		98.86					99.62			99.60					
			3G	99.53	100							98.66			99.13					
			CDMA						99.30		97.92									
8	Drop rate :	≤5%	All Generations										0.66							
			2G (GSM)	0.00	2.8		1.01					4.43			4.78					
			3G	0.00	0.4							2.36			0.59					
			CDMA						0.90		1.15									
			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.