

Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services
Report for quarter ending: December 2014

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		99.99							97.00	100.00		99.99			
				2G (GSM)								99.98									
				3G																	
				CDMA								100.00									
				HSD								99.85									
	2	Successful data transmission download attempts	>80%	All Generations											100.00	100.00					
				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	100.00					
				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									84 (RNC_PAYG)		56.00					
					Plan 2								604 (HSD)		1099.00						
					Plan 3																
				2G	Plan 1	110.74	137.9		117.00				87.00		66.00	82.98				161.95	
					Plan 2																
					Plan 3																
				3G	Plan 1	2399.57	936.5		2177.00												
					Plan 2																
					Plan 3																
				4G	Plans																
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									110 (RNC_PAYG)		69.00					
					Plan 2								1038 (HSD)		1709.00						
					Plan 3																
				2G	Plan 1	155.21	150.5		127.00				160.00		96.00	150.00				182.80	
					Plan 2																
					Plan 3																
3G				Plan 1	4614.83	1227.6		4200.00													
				Plan 2																	
				Plan 3																	
4G				Plans																	
6	Latency	Data <250ms	All Generations											115.00	123.00						
			2G (GSM)	92.92	206.7		143.00				187.00							143.17			
			3G	12.25	62.3		26.00														
			CDMA								163.00										
			HSD								72.00										
7	PDP Context Activation Success Rate	≥95%	All Generations											98.00	97.14						
			2G (GSM)	87.98	99.7		99.79				99.93							99.65			
			3G	87.98	98.9		97.13														
			CDMA								97.61										
			HSD								97.61										
8	Drop rate :	≤5%	All Generations											1.40	4.14						
			2G (GSM)	1.63	1		0.70				1.96							2.80			
			3G	1.50	0.7		0.75														
			CDMA								0.36										
			HSD								0.93										

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	99.88	100	100.00									100.00			
				2G (GSM)										99.99					
				HSD															
	2	Successful data transmission download attempts	>80%	All Generations															
				2G (GSM)	100.00	100		100.00						100.00			99.75		
				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			99.76		
				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	146.32	118.4		79.00						58.54			100.80	
					Plan 2														
					Plan 3														
				3G	Plan 1	2872.56	1986.3									660.25			
					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	161.25	167.1		119.00						144.52			135.00	
					Plan 2														
					Plan 3														
3G				Plan 1	3389.98	2807.3									954.21				
				Plan 2															
	Plan 3																		
4G	Plans																		
6	Latency	Data <250ms	All Generations																
			2G (GSM)	103.00	220.7		117.00						227.69			258.83			
			3G	32.17	34.2								115.14						
			CDMA																
7	PDP Context Activation Success Rate	≥95%	All Generations																
			2G (GSM)	98.77	99.9		99.77						99.96			99.96			
			3G	98.77	99.9								98.92						
			CDMA																
8	Drop rate :	≤5%	All Generations																
			2G (GSM)	0.98	1		0.15						6.57			2.35			
			3G	0.50	0.4								0.63						
			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			
Bihar & Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.96	99.97		100.00					96.00	100.00		99.98			
				2G									99.99						
				CDMA									99.96						
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100.00				
				2G (GSM)	100.00	99.7		100.00					100.00				100.00		
				3G	100.00	100							92.29						
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100.00				
				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 (RNC_PAYG)		45.00					
					Plan 2								393.00						
					Plan 3														
				2G	Plan 1	120.41	150.8		104.00					102.89	42.00	86.00		144.00	
					Plan 2														
					Plan 3														
				3G	Plan 1	2805.19	4375.8								824.69				
					Plan 2														
					Plan 3														
				4G	Plans														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							117.22 (RNC_PAYG)		67.00					
					Plan 2								1223.00						
					Plan 3														
				2G	Plan 1	164.41	195.5		140.00					169.41	101.00	105.70		174.38	
					Plan 2														
					Plan 3														
3G				Plan 1	4001.73	4446								1266.06					
				Plan 2															
	Plan 3																		
4G	Plans																		
6	Latency	Data <250ms	All Generations										119.08	122.00					
			2G (GSM)	97.98	244.3		241.00					108.57				115.00			
			3G	24.93	63.8								34.83						
			CDMA									165.20							
			HSD																
7	PDP Context Activation Success Rate	≥95%	All Generations										98.19	97.14					
			2G (GSM)	99.32	99.3		99.77					99.96				99.87			
			3G	99.32	100							98.92							
			CDMA									97.61							
8	Drop rate :	≤5%	All Generations										0.57	3.90					
			2G (GSM)	0.85	4.6		0.74					4.92				3.05			
			3G	0.61	0							0.93							
			CDMA									0.59							
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				
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.63	99.98										99.93				
	2	Successful data transmission download attempts	>80%	All Generations																
				2G (GSM)	100.00	100									100.00					
				3G	100.00	100									100.00					
	3	Successful data transmission upload attempts	>75%	All Generations																
				2G (GSM)	100.00	100									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	133.91	125.8												70.72	
					Plan 2															
					Plan 3															
				3G	Plan 1	1966.08	1518.8													1886.67
					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	182.74	189.1												152.33	
					Plan 2															
					Plan 3															
				3G	Plan 1	3403.09	3212.7													2150.00
	Plan 2																			
	6	Latency	Data <250ms	All Generations																
				2G (GSM)	85.59	230.3											116.56			
				3G	36.04	39.9											25.87			
	7	PDP Context Activation Success Rate	≥95%	All Generations																
2G (GSM)				97.93	100											99.90				
3G				97.93	100												99.62			
CDMA																				
8	Drop rate :	≤5%	All Generations																	
			2G (GSM)	0.92	1.1											2.06				
			3G	1.11	0.1											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	Uninor	Videocon	Vodafone				
Delhi	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.70	99.98		100.00					91.00			99.35				
				CDMA									100.00							
				GSM									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	99.8		100.00					100.00				99.77			
				3G		99.1							100.00					99.55		
				CDMA						99.71			99.92							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					100.00				100.00			
				3G		98.5							100.00					99.41		
				CDMA						99.66			100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						876.88			63.21 (RNC_PAYG)	80.00					
					Plan 2						1355.37			747.42 (HSD)	1709.00					
					Plan 3										2831.00					
				2G	Plan 1	70.43	66.7		89.00					59.36					41.32	
					Plan 2															
					Plan 3															
				3G	Plan 1		2054.5								1458.73					653.00
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1233.56			117.22 (RNC_PAYG)	84.00					
					Plan 2						2229.27			714.46 (HSD)	2097.00					
					Plan 3										3632.00					
2G				Plan 1	89.26	104.9		151.00					123.44					104.43		
				Plan 2																
				Plan 3																
3G				Plan 1		2313.5								3044.67					3797.50	
				Plan 2																
				Plan 3																
4G				Plans																
6	Latency	Data <250ms	All Generations										65.70							
			2G (GSM)	144.83	169.3		126.00					117.86				205.79				
			3G		82.3							26.45					58.26			
			CDMA						65.70			158.45								
7	PDP Context Activation Success Rate	≥95%	All Generations										96.72							
			2G (GSM)	98.73	99.7		99.58					99.90				99.89				
			3G		100							99.05					99.15			
			CDMA						99.20			98.17								
			HSD									98.17								
8	Drop rate :	≤5%	All Generations										1.13							
			2G (GSM)	1.00	1.5		1.52					3.31				1.03				
			3G		0.8							0.81					0.67			
			CDMA						1.40			0.41								
HSD									0.61											

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	99.84	99.59		100.00						96.00	100.00		99.40			
				2G (GSM)									99.96							
				CDMA									99.01							
				HSD									94.83							
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100.00	97.25				
				2G (GSM)	93.41	100		100.00					100.00					99.84		
				3G				100.00											99.97	
				CDMA						100.00			100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100.00	95.84				
				2G (GSM)	93.91	100		100.00					100.00					97.97		
				3G				100.00											99.78	
				CDMA						100.00			10.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1447.24			78.48 (RNC_PAYG)	77.00					
					Plan 2						2684.38			635.52 (HSD)	587.00					
					Plan 3										770.00					
				2G	Plan 1	145.79	59		65.00					76.53	109.00	53.85	143.00	50.90		
					Plan 2															
					Plan 3															
				3G	Plan 1					2217.00										2257.00
					Plan 2											1205.00				
					Plan 3											4461.00				
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						2297.22			111.13 (RNC_PAYG)	83.00					
					Plan 2						4456.42			865.13 (HSD)	989.00					
Plan 3														1218.00						
2G				Plan 1	188.14	102		140.00					158.25	124.00	113.01	174.00	109.37			
				Plan 2																
				Plan 3																
3G				Plan 1					4491.00										6044.00	
				Plan 2											2138.00					
				Plan 3											5137.00					
4G				Plans																
6	Latency	Data <250ms	All Generations										60.60	161.00	241.00					
			2G (GSM)	96.84	237		104.00					248.08				139.67				
			3G				86.00										27.00			
			CDMA						94.21			173.86								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.30	97.14	99.68					
			2G (GSM)	97.93	99.2		100.00					99.93				99.92				
			3G				99.99					99.38					99.82			
			CDMA						99.00			98.17								
			HSD									98.17								
8	Drop rate :	≤5%	All Generations										1.50	4.01	1.58					
			2G (GSM)	0.67	2.1		0.20					1.24				3.24				
			3G				1.03										0.47			
			CDMA						1.03			0.32								
HSD									0.47											

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Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.78	99.98		100.00					97.00			99.94				
				2G (GSM)									99.99							
				CDMA																
	2	Successful data transmission download attempts	>80%	All Generations																
				2G (GSM)	100.00	100		100.00					100.00				100.00			
				3G		100		100.00					100.00							
				CDMA								100.00		100.00						
	3	Successful data transmission upload attempts	>75%	All Generations																
				2G (GSM)	100.00	100		100.00					100.00				100.00			
				3G		100		100.00					100.00							
				CDMA								100.00		99.90						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							105.63 (RNC_PAYG)		46.00						
					Plan 2								492.00							
					Plan 3															
				2G	Plan 1	76.98	71.7		101.00					92.53	51.00				109.08	
					Plan 2															
					Plan 3															
				3G	Plan 1		1122.1		1398.00						1312.21					
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							119.97 (RNC_PAYG)		69.00						
					Plan 2								670.00							
					Plan 3															
				2G	Plan 1	149.36	160.7		150.00					162.13	117.00				172.18	
					Plan 2															
					Plan 3															
3G				Plan 1		2310		2632.00						3150.77						
	Plan 2																			
	Plan 3																			
4G	Plans																			
6	Latency	Data <250ms	All Generations										122.53							
			2G (GSM)	132.67	217.3		215.00					181.83				124.52				
			3G		123		110.00						70.87							
			CDMA								190.04									
			HSD																	
7	PDP Context Activation Success Rate	≥95%	All Generations										98.17							
			2G (GSM)	99.91	98.2		99.34					99.78				99.66				
			3G		99.8		96.66					98.71								
			CDMA								97.61									
8	Drop rate :	≤5%	All Generations										1.88							
			2G (GSM)	0.62	1.4		0.84					4.47				3.19				
			3G		0.5		1.20						0.72							
			CDMA								0.20									
HSD																				

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Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.70	97.98		100.00						98.00			98.78				
				2G (GSM)									99.99								
				CDMA									100.00								
				HSD									99.44								
	2	Successful data transmission download attempts	>80%	All Generations										100.00							
				2G (GSM)	93.12	100		99.99					99.85					99.67			
				3G				99.99											99.67		
				CDMA									100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										100.00							
				2G (GSM)	93.12	100		100.00					100.00					97.67			
				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									55.14							
					Plan 2								755.16 (HSD)		591.83						
					Plan 3																
				2G	Plan 1	105.52	79.4		79.00					64.86		43.42				59.71	
					Plan 2																
					Plan 3																
				3G	Plan 1				2644.00							1313.46				1724.36	
					Plan 2											1978.50					
Plan 3															3248.58						
4G				Plans																	
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								104.84 (RNC_PAYG)		73.27							
				Plan 2								926.21 (HSD)		1162.48							
				Plan 3																	
			2G	Plan 1	143.51	157.7		139.00					92.62		76.35				102.55		
				Plan 2																	
				Plan 3																	
			3G	Plan 1				3654.00							1850.08				3650.41		
				Plan 2											2795.58						
				Plan 3											4490.68						
			4G	Plans																	
6	Latency	Data <250ms	All Generations										84.80								
			2G (GSM)	108.03	207.3		125.00					100.07					152.56				
			3G				26.00											31.68			
			CDMA									169.14									
7	PDP Context Activation Success Rate	≥95%	All Generations										98.30								
			2G (GSM)	99.82	98.1		99.61					99.90					99.92				
			3G				97.09					99.05						98.44			
			CDMA									98.17									
8	Drop rate :	≤5%	All Generations										1.50								
			2G (GSM)	0.00	0.8		0.78					1.41					2.91				
			3G				2.09											1.37			
			CDMA									0.29									
										0.32											

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 & Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.87	99.97		100.00									99.71				
				2G (GSM)																	
	2	Successful data transmission download attempts	>80%	All Generations																	
				2G (GSM)	100.00	100		100.00											98.93		
				3G	100.00	100		100.00													
				CDMA																	
	3	Successful data transmission upload attempts	>75%	All Generations																	
				2G (GSM)	100.00	100		100.00											98.62		
				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	152.85	110.5		103.00						80.16						70.83
					Plan 2																
					Plan 3																
				3G	Plan 1	2659.22	1262.9		1963.00						2562.06						
					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	169.82	202.4					152.00						195.16						120.10	
	Plan 2																				
	Plan 3																				
3G	Plan 1	3251.51	2324.1					3043.00						3913.29							
	Plan 2																				
4G	Plans																				
	Plans																				
6	Latency	Data <250ms	All Generations																		
			2G (GSM)	137.21	206.3		165.00											167.16			
			3G	109.50	133		102.00														
			CDMA																		
7	PDP Context Activation Success Rate	≥95%	All Generations																		
			2G (GSM)	99.14	100		98.97											99.95			
			3G	99.14	100		97.35														
			CDMA																		
8	Drop rate :	≤5%	All Generations																		
			2G (GSM)	1.75	1.1		0.19											2.70			
			3G	0.87	0.5		1.36														
			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					
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.72	99.56		99.98					99.97	100.00			96.27				
				2G (GSM)																	
				CDMA										100.00							
				HSD										99.09							
	2	Successful data transmission download attempts	>80%	All Generations										99.99							
				2G (GSM)	100.00	100		100.00						100.00				99.35			
				3G	100.00									100.00					99.53		
				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				98.77			
				3G	100.00									100.00					98.82		
				CDMA							100.00			100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						378.67			100.91 (RNC_PAYG)	69.00						
					Plan 2						1072.33			873.23 (HSD)	1183.00						
					Plan 3										835.00						
				2G	Plan 1	98.25	140.1		115.00						89.43	17.00				75.13	
					Plan 2																
					Plan 3																
				3G	Plan 1	1815.97										1495.85					1475.63
					Plan 2																
	Plan 3																				
	4G	Plans																			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1089.33			122.67 (RNC_PAYG)	90.00						
					Plan 2						2213.33			949.83 (HSD)	1557.00						
Plan 3														1482.00							
2G				Plan 1	161.67	188.6		149.00						149.08	84.00				140.50		
				Plan 2																	
				Plan 3																	
3G				Plan 1	3806.62										2186.82					5103.72	
				Plan 2																	
				Plan 3																	
4G				Plans																	
6	Latency	Data <250ms	All Generations										99.99								
			2G (GSM)	113.39	222.1		139.00						88.67				110.30				
			3G	22.50									33.33					51.05			
			CDMA							54.00			180.16								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.32								
			2G (GSM)	98.15	98.4		99.48						99.96				99.92				
			3G	98.15									98.92					99.23			
			CDMA							99.30			97.61								
8	Drop rate :	≤5%	All Generations										0.27	1.35							
			2G (GSM)	0.96	3.8		0.85						4.90				1.69				
			3G	1.01									0.70					0.80			
			CDMA							0.90			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	Uninor	Videocon	Vodafone				
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.83	99.81		100.00						97.00			98.16			
				2G (GSM)									99.97							
				CDMA									100.00							
				HSD									99.87							
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					100.00					97.92		
				3G	100.00			100.00												
				CDMA						100.00			99.88							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					100.00					99.63		
				3G	100.00			100.00												
				CDMA						100.00			99.94							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					803.33		59.31 (RNC_PAYG)		74.00						
					Plan 2					1450.00		679.88 (HSD)		1034.00						
					Plan 3									1672.00						
				2G	Plan 1	32.90	51.9		106.00					118.60		74.00				65.83
					Plan 2															
					Plan 3															
				3G	Plan 1	786.97			2040.00											
					Plan 2											2676.00				
					Plan 3											1921.00				
				4G	Plans															
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1419.00		100.2 (RNC_PAYG)		82.00		
	Plan 2										2585.00		881.45 (HSD)		1965.00					
	Plan 3														2741.00					
	2G	Plan 1	195.37				133.6		129.00					197.18		125.00				98.95
		Plan 2																		
		Plan 3																		
	3G	Plan 1	2150.40						3108.00											
		Plan 2														4042.00				
		Plan 3														6238.00				
4G	Plans																			
6	Latency	Data <250ms	All Generations										71.50							
			2G (GSM)	94.37	239.3		140.00					104.27					211.00			
			3G	21.00			62.00													
			CDMA						92.50			155.52								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.70							
			2G (GSM)	97.93	100		99.62					99.93					99.64			
			3G	97.93			98.59													
			CDMA						99.17			95.42								
			HSD									95.42								
8	Drop rate :	≤5%	All Generations										1.30							
			2G (GSM)	2.25	0.7		0.74					3.13					3.63			
			3G	0.00			2.53													
			CDMA						1.48			0.36								
			HSD									0.75								

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	99.88	99.99		100.00						97.00			99.05					
				2G (GSM)									99.99									
				CDMA									83.33									
				HSD									99.02									
	2	Successful data transmission download attempts	>80%	All Generations										100.00								
				2G (GSM)	100.00	100		100.00					100.00						99.72			
				3G	100.00	100																
				CDMA							99.73		100.00									
	3	Successful data transmission upload attempts	>75%	All Generations										100.00								
				2G (GSM)	100.00	100		100.00					100.00						99.14			
				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						580.54			57.85 (RNC_PAYG)			46.00					
					Plan 2						1178.87			437.29 (HSD)			469.00					
					Plan 3											718.33						
				2G	Plan 1	152.77	76.8		118.00						54.45		64.00				69.13	
					Plan 2																	
					Plan 3																	
				3G	Plan 1	5039.88	1074.3															
					Plan 2												1296.00					
					Plan 3												991.00					
				4G	Plans																	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1374.48			107.42 (RNC_PAYG)			64.33					
					Plan 2						2790.47			998.2 (HSD)			1118.67					
					Plan 3											1205.67						
				2G	Plan 1	179.10	120.5		154.00						97.50		109.00				172.73	
					Plan 2																	
					Plan 3																	
3G				Plan 1	7717.67	1968.4																
				Plan 2												2932.00						
				Plan 3												2900.00						
4G				Plans																		
6	Latency	Data <250ms	All Generations											80.60								
			2G (GSM)	84.82	187.7		142.00					48.88						236.78				
			3G	30.83	63.5																	
			CDMA								134.33		196.96									
			HSD										49.26									
7	PDP Context Activation Success Rate	≥95%	All Generations										98.80									
			2G (GSM)	97.93	96.7		99.54					99.79						99.64				
			3G	97.93	99																	
			CDMA								99.05		95.42									
			HSD										95.42									
8	Drop rate :	≤5%	All Generations											1.70								
			2G (GSM)	1.84	1.2		0.66					1.85						2.48				
			3G	2.02	0.5																	
			CDMA								0.94		0.27									
			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	99.83	99.82		100.00					96.00	100.00		97.89				
				2G (GSM)									99.98							
				CDMA									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100.00					
				2G (GSM)	100.00	98.3		100.00					99.95				99.94			
				3G				100.00										99.94		
				CDMA									99.92							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100.00					
				2G (GSM)	100.00	99.1		100.00					100.00				96.51			
				3G				100.00										99.50		
				CDMA									99.97							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							78.43 (RNC_PAYG)		44.03						
					Plan 2								621.3 (HSD)		511.90					
					Plan 3															
				2G	Plan 1	49.81	90.2		107.00					71.37		74.30	41.37		45.30	
					Plan 2															
					Plan 3															
				3G	Plan 1				1835.00											1313.33
					Plan 2											2522.83				
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							111.72 (RNC_PAYG)		52.80						
					Plan 2								978.38 (HSD)		1220.17					
					Plan 3															
				2G	Plan 1	109.58	173.5		164.00					135.41		121.38	98.81		117.79	
					Plan 2															
					Plan 3															
				3G	Plan 1				3481.00											2403.33
					Plan 2											3576.27				
Plan 3																				
4G	Plans																			
6	Latency	Data <250ms	All Generations										81.20	168.00						
			2G (GSM)	117.83	246.9		87.00				145.40				157.05					
			3G				110.00									55.35				
			CDMA								173.14									
7	PDP Context Activation Success Rate	≥95%	All Generations										98.40	97.14						
			2G (GSM)	97.93	99.4		100.00				145.40				99.66					
			3G				100.00				99.38				99.48					
			CDMA								98.17									
			HSD								98.17									
8	Drop rate :	≤5%	All Generations										2.20	4.30						
			2G (GSM)	1.65	2.4		1.08				1.42				0.77					
			3G				1.71								0.32					
			CDMA								0.10									
			HSD								1.22									

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	99.97	99.79		100.00					92.00			99.10			
				2G (GSM)										99.99					
				CDMA									100.00						
				HSD									99.76						
	2	Successful data transmission download attempts	>80%	All Generations										100.00		99.63			
				2G (GSM)	93.33	98.7		100.00						100.00			98.88		
				3G				100.00						100.00					
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00		99.60			
				2G (GSM)	91.67	98.6		100.00						100.00			97.28		
				3G				99.81						100.00					
				CDMA									100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									68.14 (RNC_PAYG)		53.00			
					Plan 2									586.43 (HSD)		367.00			
					Plan 3														
				2G	Plan 1	59.35	91.5		75.00						77.56	74.00		28.33	56.36
					Plan 2														
					Plan 3														
				3G	Plan 1					1350.00						1712.11			
					Plan 2												1520.00		
					Plan 3														
				4G	Plans														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									100.01 (RNC_PAYG)		76.00			
					Plan 2									835.21 (HSD)		1039.00			
Plan 3																			
2G				Plan 1	124.12	130		120.00							143.09	110.00		158.00	165.76
				Plan 2															
				Plan 3															
3G				Plan 1					3312.00						2857.06				
				Plan 2												2743.00			
				Plan 3															
4G				Plans															
6	Latency	Data <250ms	All Generations											91.90		233.00			
			2G (GSM)	124.00	119.2		103.00							183.16			121.33		
			3G				115.00							95.66					
			CDMA									212.33							
7	PDP Context Activation Success Rate	≥95%	All Generations											98.40		98.44			
			2G (GSM)	97.93	99.7		99.44						99.78			99.78			
			3G				97.17						98.71						
			CDMA									97.61							
			HSD									97.61							
8	Drop rate :	≤5%	All Generations											1.40		1.75			
			2G (GSM)	2.59	2.2		1.01						4.56			2.56			
			3G				1.54						1.22						
			CDMA									0.49							
			HSD									0.71							

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	99.82	99.98		100.00	88.34				97.00			99.41			
				2G (GSM)									99.96						
				CDMA									100.00						
				HSD									99.37						
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	99.19	100		100.00	97.76			100.00				97.92			
				3G		100			99.67			100.00				99.26			
				CDMA								100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00					
				2G (GSM)	99.25	100		100.00	99.69			100.00				97.75			
				3G		100			99.75			100.00				98.65			
				CDMA								100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							95.76 (RNC_PAYG)		39.00					
					Plan 2							634.56 (HSD)		374.00					
					Plan 3														
				2G	Plan 1	63.10	110.3		76.00	30.61			130.61		64.00			164.82	
					Plan 2														
					Plan 3														
				3G	Plan 1		2956.9			514.96			3402.58						1856.85
					Plan 2														
					Plan 3														
				4G	Plans														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							106.56 (RNC_PAYG)		76.00					
					Plan 2							1276.96 (HSD)		759.00					
					Plan 3														
				2G	Plan 1	121.87	193.9		136.00	61.20			169.74		119.00			192.26	
					Plan 2														
					Plan 3														
3G				Plan 1		5173.1			821.70			3719.44						6963.69	
				Plan 2															
				Plan 3															
4G				Plans															
6	Latency	Data <250ms	All Generations										88.80						
			2G (GSM)	148.71	104.7		101.00				108.76				56.16				
			3G		27.8			170.90			23.97				19.27				
			CDMA							142.00									
7	PDP Context Activation Success Rate	≥95%	All Generations					99.78					98.07						
			2G (GSM)	97.93	99.4		99.99			99.93				99.33					
			3G		100					99.38				98.78					
			CDMA						98.17										
			HSD						98.17										
			4G	Plans															
8	Drop rate :	≤5%	All Generations					1.96					1.44						
			2G (GSM)	1.07	2.6		1.12			2.31				2.78					
			3G		0.2					0.92				0.68					
			CDMA						0.97										
			HSD						0.47										

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

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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	99.94	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				99.53	
				3G	100.00	100							100.00					
				CDMA														
	3	Successful data transmission upload attempts	>75%	All Generations														
				2G (GSM)	100.00	100		100.00					100.00				99.40	
				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	119.73	156.3		78.00					58.67				105.67
					Plan 2													
					Plan 3													
				3G	Plan 1	1870.97	2387.7							951.55				
					Plan 2													
					Plan 3													
				4G	Plans			Plan 1										
	Plan 2																	
	Plan 3																	
	Plan 1																	
	Plan 2																	
	Plan 3																	
	Plans																	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1													
Plan 2																		
Plan 3																		
2G				Plan 1	164.98	201.8		107.00					120.07				149.74	
				Plan 2														
				Plan 3														
3G				Plan 1	3710.17	3300.7							1912.31					
				Plan 2														
				Plan 3														
4G				Plans			Plan 1											
	Plan 2																	
6	Latency	Data <250ms	All Generations															
			2G (GSM)	117.17	225.7		113.00					228.02			249.00			
			3G	33.83	36.8							82.97						
			CDMA															
7	PDP Context Activation Success Rate	≥95%	All Generations															
			2G (GSM)	96.12	99.7		99.73					99.96			99.96			
			3G	96.12	99.9							98.92						
			CDMA															
8	Drop rate :	≤5%	All Generations															
			2G (GSM)	1.36	1.7		0.23					4.70			2.64			
			3G	0.72	0.6							0.93						
			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	99.64	99.8		99.99					95.00			99.99			
				2G (GSM)										99.99					
				CDMA									100.00						
	2	Successful data transmission download attempts	>80%	All Generations		100								100.00					
				2G (GSM)	100.00			100.00						100.00			99.70		
				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			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							54.82 (RNC_PAYG)		63.00					
					Plan 2									843.00					
					Plan 3														
				2G	Plan 1	83.76	98.8		74.00						76.85	341.00			56.00
					Plan 2														
					Plan 3														
				3G	Plan 1	2244.94										1087.00			
					Plan 2														
					Plan 3														
				4G	Plans														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								95.44 (RNC_PAYG)		69.00				
					Plan 2										1100.00				
Plan 3																			
2G				Plan 1	137.76	151.9		132.00							123.03	401.00		116.46	
				Plan 2															
				Plan 3															
3G				Plan 1	3304.78										2393.00				
				Plan 2															
				Plan 3															
4G				Plans															
6	Latency	Data <250ms	All Generations										127.62						
			2G (GSM)	112.96	119.1		185.00						107.67			135.50			
			3G	73.43	101.5									44.33					
			CDMA									148.00							
			HSD																
7	PDP Context Activation Success Rate	≥95%	All Generations										98.39						
			2G (GSM)	97.65	99.7		99.58						99.96			99.84			
			3G	97.65	96.7									98.92					
			CDMA									98.17							
			HSD																
8	Drop rate :	≤5%	All Generations										0.45						
			2G (GSM)	0.85	2		2.30						1.76			2.94			
			3G	0.59	2.1								0.72						
			CDMA									0.00							
			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				
Punjab	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.97	98.26		100.00						96.00			98.50			
				2G (GSM)									99.98							
				CDMA									100.00							
				HSD									99.50							
	2	Successful data transmission download attempts	>80%	All Generations							97.69			100.00						
				2G (GSM)	99.89	100		100.00					100.00					100.00		
				3G	99.89			100.00					100.00							
				CDMA									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations							97.53			100.00						
				2G (GSM)	99.83	100		100.00					100.00					100.00		
				3G	99.83			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									102.73 (RNC_PAYG)		50.27				
					Plan 2										468.93					
					Plan 3										1781.66					
				2G	Plan 1	92.14	50.4		104.00					143.00	124.94		42.38			125.66
					Plan 2															
					Plan 3															
				3G	Plan 1	2517.25			2359.00						1495.86		796.55			
					Plan 2												1228.30			
Plan 3																2342.61				
4G				Plans																
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									119.51 (RNC_PAYG)		74.00					
				Plan 2									1139.15 (HSD)		944.96					
				Plan 3										2625.01						
			2G	Plan 1	121.54	163.3		157.00					191.00	155.97		76.75			166.53	
				Plan 2																
				Plan 3																
			3G	Plan 1	3245.58			3777.00						2695.10		1540.44				
				Plan 2												2065.81				
				Plan 3												4164.08				
			4G	Plans																
6	Latency	Data <250ms	All Generations								242.00		81.70							
			2G (GSM)	208.28	221		164.00					189.70				82.37				
			3G	55.23			99.00					36.70								
			CDMA									182.50								
7	PDP Context Activation Success Rate	≥95%	All Generations								98.75		98.00							
			2G (GSM)	98.49	98.2		99.76					99.90				99.72				
			3G	98.49			99.26					99.05								
			CDMA									98.17								
			HSD									98.17								
8	Drop rate :	≤5%	All Generations								1.61		2.50							
			2G (GSM)	0.92	1		1.87					1.81				1.70				
			3G	1.82			1.05					0.55								
			CDMA									0.29								
			HSD									0.35								

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	99.74	99.98		100.00						100.00			99.80				
				2G (GSM)									99.99								
				CDMA									94.44								
				HSD									97.89								
	2	Successful data transmission download attempts	>80%	All Generations										100.00							
				2G (GSM)	98.50	100		100.00					99.24					100.00			
				3G		100						100.00									
				CDMA							100.00		100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										100.00							
				2G (GSM)	98.21	100		100.00					98.55					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						855.66			68.43(RNC_PAYG)		61.00					
					Plan 2						1761.53			617.82 (HSD)		498.00					
					Plan 3										0.00						
				2G	Plan 1	57.72	43.9		108.00					69.60		82.00				122.00	
					Plan 2																
					Plan 3																
				3G	Plan 1		519.4								1288.44						
					Plan 2																
					Plan 3																
				4G	Plans																
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1365.98			108.94 (RNC_PAYG)		82.00					
					Plan 2						2945.38			866.74 (HSD)		1069.00					
					Plan 3										0.00						
				2G	Plan 1	143.61	105.7		140.00						134.31		121.00				177.30
					Plan 2																
					Plan 3																
3G				Plan 1		2464.1								2688.40							
				Plan 2																	
				Plan 3																	
4G				Plans																	
6	Latency	Data <250ms	All Generations										98.70								
			2G (GSM)	146.50	227		90.00					245.00					130.58				
			3G		172.3							52.70									
			CDMA							80.67		209.00									
			HSD									56.30									
7	PDP Context Activation Success Rate	≥95%	All Generations										98.30								
			2G (GSM)	98.98	99.8		98.84					99.79					99.83				
			3G		100							99.03									
			CDMA							99.16		98.17									
			HSD									98.17									
8	Drop rate :	≤5%	All Generations										1.50								
			2G (GSM)	1.19	1.1		0.17					1.96					3.27				
			3G		0.7							0.93									
			CDMA							1.58		0.41									
			HSD									0.25									

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	99.85	99.98		100.00						99.00			99.85				
				2G (GSM)									99.79								
				CDMA									100.00								
				HSD									99.88								
	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					99.81					100.00			
				3G	100.00	100													100.00		
				CDMA							100.00			99.67							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						886.33			59.14 (RNC_PAYG)	43.00						
					Plan 2						1515.67			517.31 (HSD)	284.00						
					Plan 3										601.00						
				2G	Plan 1	78.33	90.5		93.00					66.46		37.00				114.98	
					Plan 2																
					Plan 3																
				3G	Plan 1	1228.80	945.1														1353.64
					Plan 2																
					Plan 3																
				4G	Plans																
	Plans																				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1177.00			110.71 (RNC_PAYG)	95.00						
Plan 2										1953.00			937.47 (HSD)	849.00							
Plan 3														1273.00							
2G				Plan 1	121.33	147.8		136.00					140.56		87.00				155.71		
				Plan 2																	
				Plan 3																	
3G				Plan 1	3498.67	1807.3														2548.04	
				Plan 2																	
				Plan 3																	
4G				Plans																	
	Plans																				
6	Latency	Data <250ms	All Generations										94.79								
			2G (GSM)	114.00	236.6		117.00					112.04					231.67				
			3G	41.83	71.7													76.33			
			CDMA							58.67			115.09								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.39								
			2G (GSM)	97.93	100		99.37					99.93					99.67				
			3G	97.93	100													99.66			
			CDMA							99.20			97.61								
			HSD										97.61								
8	Drop rate :	≤5%	All Generations										1.32								
			2G (GSM)	0.70	0.8		1.52					0.57					4.33				
			3G	1.25	0.3													0.56			
			CDMA							1.60			0.70								
			HSD										1.28								

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					
UP (East)	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.89	99.5		100.00						95.00	100.00		98.94				
				2G (GSM)									99.98								
				CDMA									100.00								
				HSD									97.61								
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100.00						
				2G (GSM)	100.00	100		100.00					100.00					99.34			
				3G	100.00			100.00											99.71		
				CDMA									99.76								
	3	Successful data transmission upload attempts	>75%	All Generations										99.95	100.00						
				2G (GSM)	98.67	100		100.00					99.73					99.43			
				3G	98.67			100.00											99.75		
				CDMA									99.89								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									90.96 (RNC_PAYG)		53.33					
					Plan 2								613.89 (HSD)		457.67						
					Plan 3										1436.00						
				2G	Plan 1	124.67	120.7		102.00					84.15		39.00	76.90			84.15	
					Plan 2																
					Plan 3																
				3G	Plan 1	1645.23			2160.00												2681.21
					Plan 2																
					Plan 3																
				4G	Plans																
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									110.42 (RNC_PAYG)		79.72					
Plan 2													909.34 (HSD)		1189.83						
Plan 3														2001.97							
2G				Plan 1	188.67	152.4		120.00					144.52		98.22	98.70			132.70		
				Plan 2																	
				Plan 3																	
3G				Plan 1	4027.73			3139.00												3970.48	
				Plan 2																	
				Plan 3																	
4G				Plans																	
6	Latency	Data <250ms	All Generations										96.04	120.00							
			2G (GSM)	160.33	234.7		147.00					112.31					220.00				
			3G	41.33			78.00											61.67			
			CDMA									148.33									
7	PDP Context Activation Success Rate	≥95%	All Generations										97.18	97.14							
			2G (GSM)	99.62	99.7		99.14					99.79					99.90				
			3G	99.62			98.88											99.90			
			CDMA									98.17									
8	Drop rate :	≤5%	All Generations										2.09	4.90							
			2G (GSM)	0.59	1.2		0.96					2.20						3.81			
			3G	0.46			2.28											0.56			
			CDMA									0.23									
			CDMA plan 2									0.56									
			HSD test									0.23									
HSD oss									0.58												

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				
UP (WEST)	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.74	99.98		100.00						97.00	100.00		100.00			
				2G (GSM)									99.99							
				CDMA									95.65							
				HSD									98.94							
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100.00					
				2G (GSM)	96.67	99.7		100.00					100.00					100.00		
				3G		99.6		100.00												
				CDMA						99.73			100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100.00					
				2G (GSM)	95.33	100		100.00					100.00					100.00		
				3G		100		100.00												
				CDMA						99.89			100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						676.94			90.99 (RNC_PAYG)	46.00					
					Plan 2						1311.80			687.5 (HSD)	840.00					
					Plan 3										1076.00					
				2G	Plan 1	77.91	35.9		103.00					109.66		77.00	78.70			91.69
					Plan 2															
					Plan 3															
				3G	Plan 1		424.1		2194.00								1538.00			
					Plan 2												2059.00			
Plan 3																2923.00				
4G				Plans																
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1202.72			109.84 (RNC_PAYG)	73.00						
				Plan 2						2050.85			979.87 (HSD)	1577.00						
				Plan 3										2067.00						
			2G	Plan 1	129.84	129.7		126.00					167.94		94.00	110.70			151.04	
				Plan 2																
				Plan 3																
			3G	Plan 1		2247.4		4630.00								2159.00				
				Plan 2												3171.00				
				Plan 3												4059.00				
			4G	Plans																
6	Latency	Data <250ms	All Generations										70.50	119.00						
			2G (GSM)	147.78	204		123.00					220.18					123.00			
			3G		196.8		54.00													
			CDMA							54.00		226.36								
			HSD									72.17								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.30	97.14						
			2G (GSM)	98.01	100		99.51					99.90					99.86			
			3G		99.9		99.71													
			CDMA							98.86		95.42								
			HSD									95.42								
8	Drop rate :	≤5%	All Generations										2.30	3.50						
			2G (GSM)	0.49	0.8		1.03					1.28					3.53			
			3G		0.5		2.26													
			CDMA							0.67		0.57								
			HSD									0.84								

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	99.68	100		99.98					96.00			99.73				
				2G (GSM)									100.00	99.99						
				CDMA																
				HSD																
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00						98.43			98.47			
				3G	100.00	100								98.61				97.71		
				CDMA							100.00		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00						97.60			98.03			
				3G	100.00	100								97.10				97.70		
				CDMA							100.00		100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						798.13			81.14 (RNC_PAYG)	59.00					
					Plan 2						844.67									
					Plan 3															
				2G	Plan 1	72.92	120.8		91.00						73.00	72.00			65.36	
					Plan 2															
					Plan 3															
				3G	Plan 1	1809.80	2658.1									1068.44				992.97
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1261.19			130.96 (RNC_PAYG)	90.00					
					Plan 2						1868.33									
					Plan 3															
				2G	Plan 1	132.43	164.5		143.00						142.67	145.00			113.85	
					Plan 2															
Plan 3																				
3G				Plan 1	3940.32	3147.3									1835.93				4809.90	
				Plan 2																
	Plan 3																			
4G	Plans																			
6	Latency	Data <250ms	All Generations										167.90							
			2G (GSM)	122.33	242.8		195.00						178.49			143.14				
			3G	59.33	60.3								30.14			48.39				
			CDMA							62.67		175.15								
			HSD																	
7	PDP Context Activation Success Rate	≥95%	All Generations										98.04							
			2G (GSM)	99.27	99.7		99.40						99.96			99.86				
			3G	99.27	99.9								98.92			99.30				
			CDMA							99.20		97.61								
			HSD																	
8	Drop rate :	≤5%	All Generations										0.41							
			2G (GSM)	1.14	2.8		1.06						4.13			4.38				
			3G	1.29	0.4								2.72			0.61				
			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.