

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.93%		99.60	99.42%
				2G			98.00				
				3G			98.00				
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)		100.00	97.60	100.00			100.00
				3G		100.00	99.40	100.00			100.00
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)		100.00	98.30	100.00			100.00
				3G		100.00	99.30	100.00			100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	139.00	59.6 (Postpaid)	63.39			63.39
					3G	1885.00	1405.2(Postpaid)	1527.88			1527.88
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	173.00	136(Postpaid)	176.67			176.67
					3G	2480.00	3161(Postpaid)	5148.33			5148.33
	6	Latency	Data <250ms	All Generations							
				2G (GSM)		132.00	188.20	92.11			92.11
				3G		78.00	57.20	31.19			31.19
				4G		50.00		33.28		54.48	33.28
	7	PDP Context Activation Success Rate	≥95%	All Generations							
				2G (GSM)		99.91	98.77	99.77			99.77
				3G		99.97	98.40	96.93			96.93
				4G		99.74		97.26		99.76	97.26
	8	Drop rate :	≤5%	All Generations							
				2G (GSM)		2.31	0.71	2.78			2.78
				3G		0.61	0.95	0.91			0.91
				4G		0.23		0.96		0.42	0.96

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00		99.93%		99.50	99.88%		
			2G		100.00						
			3G		100.00						
2	Successful data transmission download attempts	>80%	All Generations								
			2G (GSM)	100.00	98.30	100.00			100.00		
			3G	100.00	98.60	100.00			100.00		
			4G	100.00		100.00		100.00	100.00		
3	Successful data transmission upload attempts	>75%	All Generations								
			2G (GSM)	100.00	98.30	100.00			100.00		
			3G	100.00	98.60	100.00			100.00		
			4G	100.00		100.00		100.00	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	124.00						
				Postpaid Data Plan 50		83	142.33				142.33
				Postpaid Data Plan 75		83					
				Postpaid Data Plan 170		83					
				Postpaid Data Plan 225		83					
				Postpaid Data Plan 240		83					
				Postpaid Data Plan 290		83					
				Postpaid Data Plan 340		83					
				Postpaid Data Plan 501		83					
				Postpaid Data Plan 549		83					
				Postpaid Data Plan 666		83					
				Postpaid Data Plan 901		83					
				Postpaid Data Plan 1711		83					
				Prepaid Data Special Tariff Voucher-4		83					
Prepaid Data Special Tariff Voucher-7		83									

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
				Prepaid Data Special Tariff Voucher-16		83				
				Prepaid Data Special Tariff Voucher-17		83				
				Prepaid Data Special Tariff Voucher-56		83				
				Prepaid Data Special Tariff Voucher-109		83				
				Prepaid Data Special Tariff Voucher-198		83				
				Prepaid Data Special Tariff Voucher-597		83				
				Prepaid Data Special Tariff Voucher-1098		83				
				Prepaid Data Special Tariff Voucher-1197		83				
				Prepaid Data Special Tariff Voucher-1498		83				
				3G	Plan 1	1257.00		2069.00		
			Postpaid Data Plan			1247				
			Postpaid Data Plan 75			1247				
			Postpaid Data Plan 170			1247				
			Postpaid Data Plan 225			1247				
			Postpaid Data Plan 240			1247				
			Postpaid Data Plan 290			1247				
			Postpaid Data Plan 340			1247				
			Postpaid Data Plan 501			1247				
			Postpaid Data Plan 549			1247				
Postpaid Data Plan 666			1247							

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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Report for quarter ending: Sep 2019					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
	Minimum download speed (Kbps)			Postpaid Data Plan 901		1247				
				Postpaid Data Plan 1711		1247				
				Prepaid Data Special Tariff Voucher-4		1247				
				Prepaid Data Special Tariff Voucher-7		1247				
				Prepaid Data Special Tariff Voucher-16		1247				
				Prepaid Data Special Tariff Voucher-17		1247				
				Prepaid Data Special Tariff Voucher-56		1247				
				Prepaid Data Special Tariff Voucher-109		1247				
				Prepaid Data Special Tariff Voucher-198		1247				
				Prepaid Data Special Tariff Voucher-597		1247				
				Prepaid Data Special Tariff Voucher-1098		1247				
				Prepaid Data Special Tariff Voucher-1197		1247				
				Prepaid Data Special Tariff Voucher-1498		1247				
						4G	Plans	10423.00		6287.33

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	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status							
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
Assam	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
				2G	Plan 1	202.00		171.04				171.04	
					Postpaid Data Plan 50		147.00						
					Postpaid Data Plan 75		147.00						
					Postpaid Data Plan 170		147.00						
					Postpaid Data Plan 225		147.00						
					Postpaid Data Plan 240		147.00						
					Postpaid Data Plan 290		147.00						
					Postpaid Data Plan 340		147.00						
					Postpaid Data Plan 501		147.00						
					Postpaid Data Plan 549		147.00						
					Postpaid Data Plan 666		147.00						
					Postpaid Data Plan 901		147.00						
					Postpaid Data Plan 1711		147.00						
					Prepaid Data Special Tariff Voucher-4		147.00						
					Prepaid Data Special Tariff Voucher-7		147.00						
					Prepaid Data Special Tariff Voucher-16		147.00						
					Prepaid Data Special Tariff Voucher-17		147.00						
					Prepaid Data Special Tariff Voucher-56		147.00						
					Prepaid Data Special Tariff Voucher-109		147.00						
	Prepaid Data Special Tariff Voucher-198		147.00										

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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Sl. No.	Parameters	Benchmarks	Generations	Compliance Status					
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
					147.00				
					147.00				
					147.00				
					147.00				
			3G	Plan 1	3401.00		3359.39		3359.39
				Postpaid Data Plan 50		2883.00			
				Postpaid Data Plan 75		2883.00			
				Postpaid Data Plan 170		2883.00			
				Postpaid Data Plan 225		2883.00			
				Postpaid Data Plan 240		2883.00			
				Postpaid Data Plan 290		2883.00			
				Postpaid Data Plan 340		2883.00			
				Postpaid Data Plan 501		2883.00			
				Postpaid Data Plan 549		2883.00			
				Postpaid Data Plan 666		2883.00			
				Postpaid Data Plan 901		2883.00			
				Postpaid Data Plan 1711		2883.00			
				Prepaid Data Special Tariff Voucher-4		2883.00			
				Prepaid Data Special Tariff Voucher-7		2883.00			
				Prepaid Data Special Tariff Voucher-16		2883.00			

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Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
			Prepaid Data Special Tariff Voucher-17		2883.00					
			Prepaid Data Special Tariff Voucher-56		2883.00					
			Prepaid Data Special Tariff Voucher-109		2883.00					
			Prepaid Data Special Tariff Voucher-198		2883.00					
			Prepaid Data Special Tariff Voucher-597		2883.00					
			Prepaid Data Special Tariff Voucher-1098		2883.00					
			Prepaid Data Special Tariff Voucher-1197		2883.00					
			Prepaid Data Special Tariff Voucher-1498		2883.00					
			4G Plans		25915.00		8183.67		27834.26	
6	Latency	Data <250ms	All Generations							
			2G (GSM)	196.00	251.70	200.00			200.00	
			3G	153.00	161.10	202.67			202.67	
			CDMA							
			4G	51.00		40.67		39.93	40.67	
7	PDP Context Activation Success Rate	≥95%	All Generations							
			2G (GSM)	99.79	98.30	99.62			99.62	
			3G	98.58	98.10	97.78			97.78	
			CDMA							
			4G	98.51		99.93		99.85	99.93	
8	Drop rate :	≤5%	All Generations							
			2G (GSM)	3.28		2.78			2.78	
			3G	1.08	1.30	0.46			0.46	
			4G	0.83		0.65		0.43	0.65	

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					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		100.00		99.70	99.50%
				2G			100.00				
				3G			100.00				
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)		99.25	100.00	100.00			100.00
				3G		99.82	100.00	100.00			100.00
				4G		99.82	100.00	100.00		100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)		99.44	100.00	100.00			100.00
				3G		99.74	100.00	100.00			100.00
				4G		99.82	100.00	100.00		100.00	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	36.00	63.5(2G Postpaid)	97.67			97.67
					Plan 2		63.5(Prepaid 2G Data)				
				3G	Plan 1	1474.00	804.6 (3G Postpaid Data Plans)	2584.67			2584.67
					Plan 2		804.6(3G Prepaid Data Plan)				
					Plan 3						
				4G	Plans	7753.00		3465.00		5510.77	3465.00
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1			
	Plan 2										
	Plan 3										
	2G	Plan 1 (2G Postpaid Data Plans)	142.00				116.30	185.67			185.67
		Plan 2 (Prepaid 2G Data)					116.30				
	3G	Plan 1 (3G Postpaid Data Plans)	3074.00				1905.00	3279.67			3279.67
		Plan 2 (3G Prepaid Data Plans)					1905.00				
	4G	Plans	10734.00		6265.67		23701.87	6265.67			
	6	Latency	Data <250ms	All Generations							
				2G (GSM)		148.00	206.90	226.00		226.00	
				3G		94.00	100.10	94.00		94.00	
				4G		46.00		73.67		52.08	73.67
7	PDP Context Activation Success Rate	≥95%	All Generations								
			2G (GSM)		98.78	98.00	99.51		99.51		
			3G		100.00	96.90	97.54		97.54		
			4G		99.76		97.24		99.78	97.24	

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	8	Drop rate :	≤5%	All Generations						
				2G (GSM)	3.82		2.81			2.81
				3G	0.30	0.88	2.69			2.69
				4G	0.11		0.36		0.53	0.36

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	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00					
				3G							
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)		98.05					
				3G		99.10					
				CDMA							
				4G							
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)		97.93					
				3G		98.90					
				CDMA							
				4G							
	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		42.00				
				3G	Plan 1						
					Plan 2		488.00				
					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		101.00				
				3G	Plan 1						
					Plan 2		3226.00				
					Plan 3						
				4G	Plans						
	6	Latency	Data <250ms	All Generations							
				2G (GSM)			221.00				
				3G			29.00				
				CDMA							
				4G							
	7	PDP Context Activation Success Rate	≥95%	All Generations							
				2G (GSM)			97.64				
				3G			99.11				
				CDMA							
				4G							
	8	Drop rate :	≤5%	All Generations							
				2G (GSM)			3.23				
			3G			1.94					
			CDMA								
			4G								

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
Delhi	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00		98.13%	96.32	99.70	98.33%	
				3G							
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)	99.91		100.00	95.77		100.00	
				3G	99.94		100.00	98.48		100.00	
				CDMA							
				4G	100.00				100.00	100.00	
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)	99.81		100.00	90.49		100.00	
				3G	99.91		100.00	98.52		99.91	
				CDMA							
				4G	100.00				100.00	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	66.00		52.67	90.51		98.67
					Plan 2						
					Plan 3						
				3G	Plan 1	246.00		1478.33	674.48		1410.67
					Plan 2						
					Plan 3						
				4G	Plans	6302.00				7962.54	5339.33
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
					Plan 3						
				2G	Plan 1	93.00		233.00	187.23		183.70
					Plan 2						
				3G	Plan 1	1496.00		5731.33	3764.00		4353.33
Plan 2											
Plan 3											
4G	Plans	12965.00				26213.24	13309.00				
6	Latency	Data <250ms	All Generations				123.00				
			2G (GSM)	229.00		134.67			184.33		
			3G	82.00		56.00			105.00		
			CDMA								
			4G	82.00				38.25	41.33		
7	PDP Context Activation Success Rate	≥95%	All Generations				99.90				
			2G (GSM)	99.83		99.77			99.61		
			3G	100.00		99.40			97.02		
			CDMA								
			4G	97.30				99.79	99.49		
8	Drop rate :	≤5%	All Generations				2.18				
			2G (GSM)	3.43		0.24			1.87		
			3G	0.44		0.61			0.50		
			CDMA								
			4G	0.83				0.44	0.22		

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone			
Gujarat	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.00	99.90%		99.60	99.22%		
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		99.00						
				2G (GSM)	100.00		99.92			100.00		
				3G	100.00		100.00			100.00		
				CDMA								
				4G	100.00		99.92		100.00	100.00		
	3	Successful data transmission upload attempts	>75%	All Generations		99.00						
				2G (GSM)	100.00		100.00			100.00		
				3G	100.00		100.00			100.00		
				CDMA								
				4G	100.00		100.00		100.00	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	88.00		119.91				104.41
					Plan 2							
					Plan 3							
				3G	Plan 1	1345.00	1563 (kbps)	2024.34				3561.01
					Plan 2							
					Plan 3							
				4G	Plans	7426.00		7844.08			11622.74	10341.72
					Plan 1							
					Plan 2							
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
					Plan 3							
				2G	Plan 1	134.00		186.35				180.95
Plan 2												
3G				Plan 1	2822.00	4830 (kbps)	4905.63				6077.89	
				Plan 2								
				Plan 3								
4G	Plans	11784.00		14079.64			30509.02	19549.57				
	Plan 1											
6	Latency	Data <250ms	All Generations		85 (ms)							
			2G (GSM)	237.00		130.65			126.00			
			3G	49.00		49.96			66.50			
			CDMA									
			4G	32.00		47.25		39.55	33.83			
7	PDP Context Activation Success Rate	≥95%	All Generations		99.80							
			2G (GSM)	99.99		98.34			99.39			
			3G	99.92		98.38			99.06			
			CDMA									
			4G	99.83		99.91		99.85	99.97			
8	Drop rate :	≤5%	All Generations		1.08							
			2G (GSM)	4.94		0.46			4.63			
			3G	0.22		0.58			0.52			
			CDMA									
			4G	0.11		1.01		0.40	0.22			

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					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00	100.00	99.97%		99.60	99.33%
				2G (GSM)							
				3G							
				CDMA							
	2	Successful data transmission download attempts	>80%	All Generations			93.00				
				2G (GSM)		100.00		100.00			100.00
				3G		100.00		100.00			100.00
				4G		100.00		100.00		100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations			93.00				
				2G (GSM)		100.00		100.00			100.00
				3G		100.00		100.00			100.00
				4G		100.00		100.00		100.00	100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	80.00	79.00	78.37			78.37
					Plan 2						
					Plan 3						
				4G	Plans	1116.00		4496.88		9047.66	4496.88
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1			
	Plan 2										
	2G	Plan 1	126.00				112.00	199.81			199.81
		Plan 2									
		Plan 3									
	4G	Plans	3687.00					14657.67		30516.55	14657.67
	6	Latency	Data <250ms				All Generations			88.00	
				2G (GSM)		234.00		211.67			211.67
3G				167.00		124.67			124.67		
4G				70.00		108.00		34.27	108.00		
7	PDP Context Activation Success Rate	≥95%	All Generations			99.00					
			2G (GSM)		99.79		98.60			98.60	
			3G		100.00		98.57			98.57	
			4G		98.53		99.90		99.85	99.90	
8	Drop rate :	≤5%	All Generations			1.80					
			2G (GSM)		1.93		4.19			4.19	
			3G		0.43		0.67			0.67	
			4G		0.61		0.37		0.41	0.37	

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status					
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	98.33	99.96%		99.50	99.68%
	2	Successful data transmission download attempts	>80%	All Generations			88.33				
				2G (GSM)		100.00		100.00			100.00
				3G		100.00		100.00			100.00
				4G		100.00		100.00		100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations			88.33				
				2G (GSM)		100.00		100.00			100.00
				3G		100.00		100.00			100.00
				4G		100.00		100.00		100.00	100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	144.00	76.33	116.36			116.36
					Plan 2						
				3G	Plan 1	1085.00	1737.00	2253.33			2253.33
					Plan 2						
					Plan 3						
				4G	Plans	2119.00		4219.33		15799.49	4219.33
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
					Plan 3						
				2G	Plan 1	163.00	116.33	161.04			161.04
					Plan 2						
				3G	Plan 1	1990.00	1812.00	4667.16			4667.16
					Plan 2						
					Plan 3						
	4G	Plans	13896.00		10561.75		32491.09	10561.75			
	6	Latency	Data <250ms	All Generations			113.67				
				2G (GSM)		226.00		127.67			127.67
				3G		119.00		42.17			42.17
				4G		82.00		54.47		42.48	54.47
	7	PDP Context Activation Success Rate	≥95%	All Generations			96.82				
2G (GSM)				99.90		99.86			99.86		
3G				100.00		99.09			99.09		
4G				98.69		99.89		98.63	99.89		
8	Drop rate :	≤5%	All Generations			3.29					
			2G (GSM)		1.15		4.70			4.70	
			3G		0.03		1.34			1.34	
			4G		0.09		0.69		0.35	0.69	

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services												
Report for quarter ending: Sep 2019					Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
Jammu and Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95% success		All Generations	100.00	99.07	99.82		99.50	99.66	
					3G							
	2	Successful data transmission download attempts	>80%	All Generations			96.00					
					2G (GSM)	100.00						
					3G	100.00						
					4G	100.00				100.00		
	3	Successful data transmission upload attempts	>75%	All Generations			87.00					
					2G (GSM)	100.00						
					3G	100.00						
					4G	100.00				100.00		
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							
				2G	Plan 1	214.00	41.00					
				3G	Plan 1	2500.00	1312.00					
				4G	Plans	13312.00					9523.67	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
				2G	Plan 1	148.00	81.00					
				3G	Plan 1	2300.00	2658.00					
				4G	Plans	18412.00					27134.94	
	6	Latency	Data <250ms	All Generations			183.00					
					2G (GSM)	210.00						
					3G	99.00						
					4G	61.00				38.33		
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.00					
					2G (GSM)	100.00						
					3G	100.00						
					4G	100.00				99.95		
	8	Drop rate :	≤5%	All Generations			2.00					
					2G (GSM)	2.40						
				3G	0.50							
				4G	0.90				0.37			

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	95.00	99.94%		99.70	99.79%	
	2	Successful data transmission download attempts	>80%	All Generations		96.00					
				2G (GSM)	100.00		99.79			100.00	
				3G			99.88			100.00	
				4G	100.00				100.00	100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		95.00					
				2G (GSM)	100.00		99.39			100.00	
				3G			99.67			100.00	
				4G	100.00				100.00	100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	171.00	65.00	117.33			167.92
					Plan 2						
				3G	Plan 1		925.00	2346.67			3472.00
					Plan 2						
					Plan 3						
				4G	Plans	14589.00				16468.48	12964.67
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	181.00	93.30	159.00			212.33
					Plan 2						
				3G	Plan 1		2066.60	4373.33			8187.00
					Plan 2						
					Plan 3						
	4G	Plans	34501.00				37124.62	22883.67			
	6	Latency	Data <250ms	All Generations		103.30					
				2G (GSM)	102.00		220.33			158.67	
				3G			101.33			48.67	
				CDMA							
				4G	32.00				37.75	44.00	
	7	PDP Context Activation Success Rate	≥95%	All Generations							
				2G (GSM)	100.00	99.83	98.66			99.64	
3G					99.80	99.78			98.13		
CDMA											
4G				99.86				99.86	99.98		
8	Drop rate :	≤5%	All Generations								
			2G (GSM)	2.72		1.04			4.23		
			3G			0.04			0.64		
			CDMA								
			4G	0.07				0.27	0.16		

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status							
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00		99.95%		99.50	99.98%	
				2G (GSM)							
	2	Successful data transmission download attempts	>80%	All Generations		98.07					
				2G (GSM)	100.00		100.00		100.00		
				3G	100.00		100.00		100.00		
				CDMA							
				4G	100.00		100.00		100.00	100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		97.39					
				2G (GSM)	100.00		100.00		100.00		
				3G	100.00		100.00		100.00		
				CDMA							
				4G	100.00		100.00		100.00	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	59.00	50.53	150.11			154.21
					Plan 2						
					Plan 3						
				3G	Plan 1	1085.00	814.98	1921.48			1913.36
					Plan 2						
					Plan 3						
				4G	Plans	4645.00	1494.90	3371.40		8088.14	3260.56
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
					Plan 3						
				2G	Plan 1	125.00	87.94	181.70			182.74
					Plan 2						
					Plan 3						
3G				Plan 1	2347.00	1933.14	4079.83			4069.76	
				Plan 2							
				Plan 3							
4G				Plans	14947.00	6174.74	11014.37		25393.85	10759.03	
6	Latency	Data <250ms	All Generations		124.00						
			2G (GSM)	230.00		58.00		58.83			
			3G	112.00		28.00		27.67			
			CDMA								
			4G	76.00		18.00		39.42	17.83		
7	PDP Context Activation Success Rate	≥95%	All Generations		98.44						
			2G (GSM)	99.53		97.24		98.35			
			3G	99.98		96.27		72.98			
			CDMA								
			4G	99.42		97.08		99.82	100.00		
8	Drop rate :	≤5%	All Generations		0.56						
			2G (GSM)	2.99		3.01		4.01			
			3G	0.22		1.53		1.25			
			CDMA								
			4G	0.01		0.74		0.51	0.14		

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status									
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone				
Karnataka	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	100.00	98.64%		99.40	98.86%				
	2	Successful data transmission download attempts	>80%	2G (GSM)										
				All Generations										
				2G (GSM)	100.00	100.00	100.00		100.00					
				3G	100.00	100.00		100.00						
				CDMA										
	3	Successful data transmission upload attempts	>75%	All Generations										
				2G (GSM)	100.00	96.67	100.00		100.00					
				3G	100.00	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	92.00	130.93	128.67			157.30			
					3G	Plan 1	1696.00	2188.33			8385.69			
						Plan 2								
				4G	Plan 3									
					Plans	5831.00		4711.34		6166.69	15752.26			
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
								Plan 2						
	Plan 3													
	2G	Plan 1	188.00				203.59	209.33			193.32			
		3G	Plan 1				3648.00	4549.36			11892.22			
	Plan 2													
	Plan 3													
	4G	Plans	15885.00					14123.76		23143.76	21575.13			
	6	Latency	Data <250ms	All Generations		128.02								
				2G (GSM)	205.00		223.33			109.90				
				3G	71.00					26.12				
				CDMA										
				4G	16.00		60.00		52.32	43.87				
	7	PDP Context Activation Success Rate	≥95%	All Generations		98.10								
2G (GSM)				99.40		96.39			92.85					
3G				99.97					82.69					
CDMA														
4G				99.67		99.17		99.60	98.59					
8	Drop rate :	≤5%	All Generations		0.67									
			2G (GSM)	3.61		2.28			2.58					
			3G	0.24					0.41					
			CDMA											
			4G	0.17		0.14		0.56	0.13					

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	99.19	99.91%		99.50	99.04%
				2G (GSM)							
	2	Successful data transmission download attempts	>80%	All Generations			97.60				
				2G (GSM)		100.00		99.91			100.00
				3G		100.00		100.00			100.00
				4G		100.00		91.83		100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations			96.32				
				2G (GSM)		100.00		100.00			100.00
				3G		100.00		100.00			100.00
				4G		100.00		99.83		100.00	100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	86.00	103.00	126.88			170.64
					Plan 2						
				3G	Plan 1	1567.00	4034.00	4843.43			3713.26
					Plan 2						
					Plan 3						
				4G	Plans	13161.00		7564.29		8911.38	11055.14
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
					Plan 3						
				2G	Plan 1	162.00	120.00	184.03			214.44
					Plan 2						
					Plan 3						
				3G	Plan 1	2755.00	4107.00	7179.92			7128.54
					Plan 2						
					Plan 3						
				4G	Plans	18818.00		14202.35		26726.20	15748.90
6	Latency	Data <250ms	All Generations			117.00					
			2G (GSM)		234.00		167.00			220.67	
			3G		63.00		132.00			78.67	
			4G		49.00		36.00		61.42	47.33	
7	PDP Context Activation Success Rate	≥95%	All Generations			97.33					
			2G (GSM)		100.00		100.00			99.86	
			3G		100.00		99.85			99.51	
			4G		100.00		97.33		99.75	99.92	
8	Drop rate :	≤5%	All Generations			2.02					
			2G (GSM)		0.00		2.19			3.26	
			3G		0.00		1.25			0.79	
			4G		0.00		0.52		0.57	0.27	

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status					
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00		99.91%		99.60	99.92%
			2G		97.98				
			3G		98.05				
2	Successful data transmission download attempts	>80%	All Generations						
			2G (GSM)	100.00	100.00	99.87		99.87	
			3G	100.00	100.00	100.00		100.00	
			4G	100.00		99.86	100.00	99.86	
3	Successful data transmission upload attempts	>75%	All Generations						
			2G (GSM)	100.00	100.00	100.00		100.00	
			3G	100.00	100.00	100.00		100.00	
			4G	100.00		100.00	100.00	100.00	
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				Plan 2					
			2G	Plan 1	116.00		143.06		143.06
			3G	Plan 1	1171.00		1851.57		1851.57
				3G Postpaid Data Plans -FMC- 50		1541.0			
				3G Postpaid Data Plans FMC- 225		1859.0			
				3G Postpaid Data Plans FMC- 501		1756.0			
				3G Postpaid Data Plans FMC- 666		1329.0			
				3G Postpaid Data PlansFMC- 901		1285.0			
				3G Prepaid Data Recharge Vouchers-43		1652.0			
				3G Prepaid Data Recharge Vouchers-56		1925.0			
				3G Prepaid Data Recharge Vouchers-197		2125.0			
				3G Prepaid Data Recharge Vouchers-395		1589.0			
				3G Prepaid Data Recharge Vouchers-443		1945.0			
				3G Prepaid Data Recharge Vouchers-548		1758.0			
				3G Prepaid Data Recharge Vouchers-597		1600.0			

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
				3G Prepaid Data Recharge Vouchers-1197		2100.0					
			4G	Plans	7934.00		4334.48		6636.43	4334.48	

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status								
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone			
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									
				Plan 2									
			2G	Plan 1	141.00		201.54				201.54		
			3G	Plan 1	1650.00		3399.09				3399.09		
				3G Postpaid Data Plans -FMC- 75		2069.0							
				3G Postpaid Data Plans FMC- 225		3184.0							
				3G Postpaid Data Plans FMC- 501		2615.0							
				3G Postpaid Data Plans FMC- 666		3564.0							
				3G Postpaid Data PlansFMC- 901		2534.0							
				3G Prepaid Data Recharge Vouchers-43		2278.2							
				3G Prepaid Data Recharge Vouchers-56		3354.0							
				3G Prepaid Data Recharge Vouchers-197		3269.0							
				3G Prepaid Data Recharge Vouchers-395		3584.0							
				3G Prepaid Data Recharge Vouchers-443		3768.0							
				3G Prepaid Data Recharge Vouchers-548		248945.0							
				3G Prepaid Data Recharge Vouchers-597		2532							
				3G Prepaid Data Recharge Vouchers-1197		2956.0							
				4G	Plans	11387.00		7750.96			29817.95	7750.96	
				6	Latency	Data <250ms	All Generations						
			2G (GSM)				119.00	174.10	111.29			111.29	
3G		55.00	106.30				80.27			80.27			
4G		39.00					29.82		59.04	29.82			
7	PDP Context Activation Success Rate	≥95%	All Generations										
			2G (GSM)		99.60	97.70	99.96			99.96			
			3G		99.97	97.60	99.29			99.29			
			4G		99.92		97.19		99.84	97.19			

Note 1. In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
8	Drop rate :	≤5%	All Generations							
			2G (GSM)	4.97		0.71			0.71	
			3G	0.23	1.10	1.25			1.25	
			4G	0.09		0.38		0.47	0.38	

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status					
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
Mumbai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00		99.79%	98.33	99.50	98.55%
				3G							
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)		100.00		100.00	100.00		100.00
				3G		100.00			99.96		100.00
				4G		100.00		100.00		100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)		100.00		100.00	99.92		100.00
				3G		100.00			99.42		100.00
				4G		100.00		100.00		100.00	100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	224.00		96.09	53.16		172.67
				3G	Plan 1	2661.00			475.04		4530.56
				4G	Plans	6982.00		6661.37		7487.00	11612.34
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	288.00		152.62	79.03		193.00
				3G	Plan 1	5851.00			776.73		7281.92
				4G	Plans	14673.00		12179.30		26676.61	27577.84
	6	Latency	Data <250ms	All Generations							
				2G (GSM)		107.00		107.67			95.00
				3G		34.00			217.78		16.17
				4G		27.00		20.17		37.92	18.00
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.07		
				2G (GSM)		99.99		99.77			99.75
				3G		99.97					97.67
				4G		99.94		99.61		99.79	99.46
	8	Drop rate :	≤5%	All Generations					2.25		
				2G (GSM)		3.67		0.45			4.79
				3G		0.05					1.54
				4G		0.27		0.73		0.39	0.19

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status					
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
North East-I	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.96%		99.60	99.90%
				2G			100.00				
				3G			100.00				
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)		100.00	100.00	99.80			99.80
				3G		100.00	100.00	100.00			100.00
				4G		100.00		100.00		100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)		100.00	100.00	100.00			100.00
				3G		100.00	100.00	100.00			100.00
				4G		100.00		100.00		100.00	100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
				2G	Plan 1	114.00		173.33			173.33
					Postpaid Data Plans 99		75.90				
					Postpaid Data Plans 125		75.90				
					Postpaid Data Plans 225		75.90				
					Postpaid Data Plans 501		75.90				
				Postpaid Data Plans 901		75.90					
				Prepaid Data Special Tariff Vouchers-17		75.90					
				Prepaid Data Special Tariff Vouchers-39		75.90					
				Prepaid Data Special Tariff Vouchers-78		75.90					
				Prepaid Data Special Tariff Vouchers-98		75.90					
				Prepaid Data Special Tariff Vouchers-139		75.90					
				Prepaid Data Special Tariff Vouchers-251		75.90					

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
				Prepaid Data Special Tariff Vouchers-561		75.90				
				Prepaid Data Special Tariff Vouchers-821		75.90				
				Prepaid Data Special Tariff Vouchers-1011		75.90				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019										
					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
North East-I	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	3G	Plan 1	1452.00		2535.33			2535.33
				Postpaid Data Plans 99		1818.23				
				Postpaid Data Plans 125		1818.23				
				Postpaid Data Plans 225		1818.23				
				Postpaid Data Plans 501		1818.23				
				Postpaid Data Plans 901		1818.23				
				Prepaid Data Special Tariff Vouchers-17		1818.23				
				Prepaid Data Special Tariff Vouchers-39		1818.23				
				Prepaid Data Special Tariff Vouchers-78		1818.23				
				Prepaid Data Special Tariff Vouchers-98		1818.23				
				Prepaid Data Special Tariff Vouchers-139		1818.23				
				Prepaid Data Special Tariff Vouchers-251		1818.23				
				Prepaid Data Special Tariff Vouchers-561		1818.23				
				Prepaid Data Special Tariff Vouchers-821		1818.23				
				Prepaid Data Special Tariff Vouchers-1011		1818.23				
			4G	Plans	11570.00		6129.67		5081.64	6129.67

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status							
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
North East-I	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					2G	Plan 1	195.00		173.38			173.38	
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				
									82.98				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status										
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone					
North East-I	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	3G	Plan 1	3344.00		2491.69			2491.69					
				Postpaid Data Plans 99		2814.57									
				Postpaid Data Plans 125		2814.57									
				Postpaid Data Plans 225		2814.57									
				Postpaid Data Plans 501		2814.57									
				Postpaid Data Plans 901		2814.57									
				Prepaid Data Special Tariff Voucher 17		2814.57									
				Prepaid Data Special Tariff Voucher 20		2814.57									
				Prepaid Data Special Tariff Voucher 78		2814.57									
				Prepaid Data Special Tariff Voucher 98		2814.57									
				Prepaid Data Special Tariff Voucher 120		2814.57									
				Prepaid Data Special Tariff Voucher 251		2814.57									
				Prepaid Data Special Tariff Voucher 561		2814.57									
				Prepaid Data Special Tariff Voucher 821		2814.57									
				Prepaid Data Special Tariff Voucher 1011		2814.57									
							4G	Plans	27022.00		6362.04		30180.11	6362.04	
				6	Latency	Data <250ms	All Generations								
							2G (GSM)		211.00		231.33		226.00		226.00
							3G		156.00		165.33		174.67		174.67
	4G		53.00					49.00		50.60		49.00			
7	PDP Context Activation Success Rate	≥95%	All Generations												
			2G (GSM)		99.97		96.50		99.62		99.62				
			3G		100.00		95.68		97.78		97.78				
			4G		98.69		99.93		99.77		99.93				
8	Drop rate :	≤5%	All Generations												
			2G (GSM)		3.21		3.74				3.74				
			3G		0.63		0.48				0.96				
			4G		0.98		0.51		0.63		0.51				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status					
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
North East-II	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations			100.00				
				3G							
	2	Successful data transmission download attempts	>80%	All Generations			99.00				
				2G (GSM)							
				3G							
				4G							
	3	Successful data transmission upload attempts	>75%	All Generations			97.00				
				2G (GSM)							
				3G							
				4G							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
				2G	Plan 1						
				3G	Plan 1		378kbps				
					Plan 2						
					Plan 3						
				4G	Plans						
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
				2G	Plan 1						
				3G	Plan 1		971kbps				
					Plan 2						
					Plan 3						
				4G	Plans						
	6	Latency	Data <250ms	All Generations			114ms				
				2G (GSM)							
				3G							
				4G							
	7	PDP Context Activation Success Rate	≥95%	All Generations			98.00				
				2G (GSM)							
			3G								
			4G								
8	Drop rate :	≤5%	All Generations			0.63					
			2G (GSM)								
			3G								
			4G								

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Orissa		Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	3G	Plan 1	1885.00		5285			5284.67
	Postpaid Data Plans 99					3051.00					
	Postpaid Data Plans 225					3051.00					
	Postpaid Data Plans 325					3051.00					
	Postpaid Data Plans 525					3051.00					
	Postpaid Data Plans 725					3051.00					
	Postpaid Data Plans 799					3051.00					
	Postpaid Data Plans 1125					3051.00					
	Postpaid Data Plans 1525					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Plan Vouchers-74					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Plan Vouchers-81					3051.00					
	Prepaid Data Special Tariff					3051.00					
	Prepaid Data Special Tariff					3051.00					
Prepaid Data Special Tariff		3051.00									
Prepaid Plan Special Tariff		3051.00									

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services										
Report for quarter ending: Sep 2019					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
				Prepaid Data Special Tariff		3051.00				
				Prepaid Data Special Tariff		3051.00				
				Prepaid Data Special Tariff		3051.00				
				Prepaid Data Special Tariff		3051.00				
				Prepaid Data Special Tariff		3051.00				
				Prepaid Data Special Tariff		3051.00				
				Prepaid Data Special Tariff		3051.00				
				Prepaid Data Special Tariff		3051.00				
			4G	Plans	10190.00		7225		4875.70	7224.91

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status					
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
Orissa	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	161.00		152			152.41
					Postpaid Data Plans 99		193.00				
					Postpaid Data Plans 225		193.00				
					Postpaid Data Plans 325		193.00				
					Postpaid Data Plans 525		193.00				
					Postpaid Data Plans 725		193.00				
					Postpaid Data Plans 799		193.00				
					Postpaid Data Plans 1125		193.00				
					Postpaid Data Plans 1525		193.00				
					Prepaid Data Special Tariff Vouchers-7		193.00				
					Prepaid Data Special Tariff Vouchers-13		193.00				
					Prepaid Data Special Tariff Vouchers-09		193.00				
					Prepaid Data Special Tariff Vouchers-18		193.00				
					Prepaid Data Special Tariff Vouchers-29		193.00				
					Prepaid Data Special Tariff Vouchers-56		193.00				
					Prepaid Data Special Tariff Vouchers-58		193.00				
					Prepaid Data Special Tariff Vouchers-68		193.00				
					Prepaid Plan Vouchers-74		193.00				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status					
				Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
			Prepaid Data Special Tariff Vouchers-78		193.00				
			Prepaid Plan Vouchers-81		193.00				
			Prepaid Data Special Tariff Vouchers-98		193.00				
			Prepaid Data Special Tariff Vouchers-108		193.00				
			Prepaid Data Special Tariff Vouchers-151		193.00				
			PrepaidPlan Special Tariff Vouchers-187		193.00				
			Prepaid Data Special Tariff Vouchers-186		193.00				
			Prepaid Data Special Tariff Vouchers-198		193.00				
			Prepaid Data Special Tariff Vouchers-319		193.00				
			Prepaid Data Special Tariff Vouchers-399		193.00				
			Prepaid Data Special Tariff Vouchers-429		193.00				
			Prepaid Data Special Tariff Vouchers-458		193.00				
			Prepaid Data Special Tariff Vouchers-666		193.00				
			Prepaid Data Special Tariff Vouchers-1699		193.00				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	3G	Plan 1	3416.00		7132			7132.33
				Postpaid Data Plans 99		6813.00				
				Postpaid Data Plans 225		6813.00				
				Postpaid Data Plans 325		6813.00				
				Postpaid Data Plans 525		6813.00				
				Postpaid Data Plans 725		6813.00				
				Postpaid Data Plans 799		6813.00				
				Postpaid Data Plans 1125		6813.00				
				Postpaid Data Plans 1525		6813.00				
				Prepaid Data Special Tariff Vouchers-7		6813.00				
				Prepaid Data Special Tariff Vouchers-13		6813.00				
				Prepaid Data Special Tariff Vouchers-09		6813.00				
				Prepaid Data Special Tariff Vouchers-18		6813.00				
				Prepaid Data Special Tariff Vouchers-29		6813.00				
				Prepaid Data Special Tariff Vouchers-56		6813.00				
				Prepaid Data Special Tariff Vouchers-58		6813.00				
				Prepaid Data Special Tariff Vouchers-68		6813.00				
				Prepaid Plan Vouchers-74		6813.00				
				Prepaid Data Special Tariff Vouchers-78		6813.00				

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status					
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
Orissa						6813.00				
				Prepaid Plan Vouchers-81		6813.00				
				Prepaid Data Special Tariff Vouchers-98		6813.00				
				Prepaid Data Special Tariff Vouchers-108		6813.00				
				Prepaid Data Special Tariff Vouchers-151		6813.00				
				PrepaidPlan Special Tariff Vouchers-187		6813.00				
				Prepaid Data Special Tariff Vouchers-186		6813.00				
				Prepaid Data Special Tariff Vouchers-198		6813.00				
				Prepaid Data Special Tariff Vouchers-319		6813.00				
				Prepaid Data Special Tariff Vouchers-399		6813.00				
				Prepaid Data Special Tariff Vouchers-429		6813.00				
				Prepaid Data Special Tariff Vouchers-458		6813.00				
				Prepaid Data Special Tariff Vouchers-666		6813.00				
				Prepaid Data Special Tariff Vouchers-1699		6813.00				
				4G Plans	11495.00		9872		22481.12	9872.31
	6	Latency	Data <250ms	All Generations						
				2G (GSM)	161.00	231.00	119			118.67
				3G	57.00	66.40	58			58.33
				4G	48.00		36		53.49	36.00
	7	PDP Context Activation Success Rate	≥95%	All Generations						
			2G (GSM)	99.93	98.62	99			98.89	
			3G	100.00	99.00	98			98.19	
			4G	99.35		99		98.78	98.98	

Note 1. In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019					Compliance Status					
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
8	Drop rate :	≤5%	All Generations							
			2G (GSM)	4.68		3			2.67	
			3G	0.73	0.40	1		0.80		
			4G	0.44		0	0.43	0.36		

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

Sl. No.	Parameters	Benchmarks	Generations		Compliance Status							
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone		
Punjab	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	100.00	99.94%		99.70	99.89%	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations			97.86					
				2G (GSM)		100.00		100.00			100.00	
				3G		100.00		100.00			100.00	
				4G		100.00		100.00			100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations			96.79					
				2G (GSM)		100.00		100.00				
				3G		100.00		100.00				
				4G		100.00		100.00			100.00	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	71.00		63.52				63.52
					Plan 2							
				3G	Plan 1	777.00	1491.75	1623.25				1623.25
					Plan 2							
					Plan 3							
				4G	Plans	3142.00		3672.21			9630.95	3672.21
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1				
	Plan 2											
	Plan 3											
	2G	Plan 1	107.00					109.23				109.23
		Plan 2										
	3G	Plan 1	1229.00				2301.73	3347.42				3347.42
		Plan 2										
		Plan 3										
	4G	Plans	10422.00		10506.00			28762.12	10506.00			
6	Latency	Data <250ms	All Generations									
			2G (GSM)		210.00		233.00			233.00		
			3G		175.00	133.17	111.83			111.83		
			4G		81.00		90.33		36.20	90.33		
7	PDP Context Activation Success Rate	≥95%	All Generations			97.81						
			2G (GSM)		99.87		98.60			98.60		
			3G		100.00		98.57			98.57		
			4G		98.89		99.90		99.06	99.90		
8	Drop rate :	≤5%	All Generations			1.66						
			2G (GSM)		0.83		2.96			2.96		
			3G		0.34		0.40			0.40		
			4G		0.05		0.25		0.23	0.25		

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00		99.91%		99.60	99.83%	
				3G		98.00					
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)	100.00		100.00			100.00	
				3G	100.00	100.00	100.00			100.00	
				CDMA							
				4G	100.00		100.00		100.00	100.00	
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)	100.00		100.00			100.00	
				3G	100.00	100.00	100.00			100.00	
				CDMA							
				4G	100.00		100.00		100.00	100.00	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	106.00	1650.9(All Plans Prepaid)	121.88			134.07
				3G	Plan 1	2953.00	1606.8 (All Plans Postpaid)	2140.28			2354.30
				4G	Plans	15808.00		5226.02		12942.45	5748.62
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	125.00	1908.9 (All Plans Prepaid)	168.70			185.57
				3G	Plan 1	4827.00	1839(All Plans Postpaid)	3132.70			3445.97
				4G	Plans	21697.00		9039.67		32765.21	9943.63
	6	Latency	Data <250ms	All Generations							
				2G (GSM)		169.00		101.21			101.19
				3G		63.00	91.20	46.30			50.93
				CDMA							
				4G		63.00		37.47		52.07	41.21
	7	PDP Context Activation Success Rate	≥95%	All Generations							
			2G (GSM)		99.94		99.52			99.60	
			3G		98.85	100.00	98.94			98.85	
			CDMA								
			4G		98.46		99.57		99.88	98.97	
8	Drop rate :	≤5%	All Generations								
			2G (GSM)		2.12		0.15			3.39	
			3G		0.70	0.27	0.16			0.56	
			CDMA								
			4G		0.45		0.13		0.41	0.33	

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Tamilnadu	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	100.00	98.41%		99.50	99.56%	
	2	Successful data transmission download attempts	>80%	2G (GSM)							
				All Generations							
				2G (GSM)	100.00	99.07	100.00			100.00	
				3G	100.00	99.92				100.00	
				CDMA							
	3	Successful data transmission upload attempts	>75%	4G	100.00	99.69	100.00			100.00	100.00
				All Generations							
				2G (GSM)	100.00	97.81	100.00			100.00	
				3G	100.00	99.83				100.00	
				CDMA							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	147.00	73.89	96.08			122.37
				3G	Plan 1	4429.00	1078.79				2420.89
				4G	Plans	6399.00	2521.46	5303.70		9020.29	6465.45
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	215.00	122.15	168.43			175.15
				3G	Plan 1	6911.00	2145.65				7146.19
				4G	Plans	12055.00	3668.40	7544.48		28833.71	13452.83
	6	Latency	Data <250ms	All Generations							
				2G (GSM)	177.00	333.01	114.57			139.17	
				3G	72.00	203.21				28.08	
				CDMA							
				4G	54.00	108.08	30.73		50.66	21.67	
	7	PDP Context Activation Success Rate	≥95%	All Generations							
				2G (GSM)	100.00	100.00	98.63			99.78	
				3G	99.91	100.00				98.80	
				CDMA							
				4G	99.61	100.00	99.91		99.74	99.01	
	8	Drop rate :	≤5%	All Generations							
2G (GSM)				1.48	0.00	3.01			4.92		
3G				0.30	0.00				0.96		
CDMA											
4G				0.13	0.00	0.29		0.40	0.15		

Note 1:In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations		Compliance Status					
						Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
Uttar Pradesh (East)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	97.71	99.85%		99.70	99.88%
	2	Successful data transmission download attempts	>80%	All Generations			87.44				
				2G (GSM)		100.00		100.00			99.65
				3G		100.00		100.00			99.92
				4G		100.00		100.00		100.00	100.00
	3	Successful data transmission upload attempts	>75%	All Generations			85.30				
				2G (GSM)		100.00		100.00			99.83
				3G		100.00		100.00			99.77
				4G		100.00		100.00		100.00	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	77.00	84.33	180.33			137.05
					3G	1116.00	2094.33	6219.67			6694.54
				4G	5457.00		8105.01		9346.25	29576.02	
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1			
	Plan 2										
	Plan 3										
	2G	Plan 1	274.00				161.66	236.33			194.52
		3G	2074.00				2690.00	8665.67			10769.39
	4G	13310.00		11833.00		33355.77	52784.86				
	6	Latency	Data <250ms	All Generations			209.00				
				2G (GSM)		227.00		184.33			175.28
				3G		180.00		100.00			48.69
				4G		114.00		65.00		49.09	66.42
	7	PDP Context Activation Success Rate	≥95%	All Generations			98.45				
				2G (GSM)		99.47		99.85			99.65
				3G		100.00		99.15			99.45
				4G		98.57		98.70		99.76	99.96
	8	Drop rate :	≤5%	All Generations			0.71				
				2G (GSM)		4.85		3.11			2.20
3G				0.31		0.85			0.65		
4G				0.30		0.41		0.51	0.52		

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status						
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone	
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	97.80	99.97%		99.70	99.99%	
				2G (GSM)							
	2	Successful data transmission download attempts	>80%	All Generations		94.50					
				2G (GSM)	100.00		100.00			100.00	
				3G	100.00		100.00			100.00	
				CDMA							
				4G	100.00		100.00		100.00	100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		91.70					
				2G (GSM)	100.00		100.00			100.00	
				3G	100.00		100.00			100.00	
				CDMA							
				4G	100.00		100.00		100.00	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	85.00	98.30	142.37			62.97
					Plan 2						
					Plan 3						
				3G	Plan 1	1103.00	1970.30	1279.67			1204.97
					Plan 2						
					Plan 3						
				4G	Plans	2360.00		6175.33		8246.47	1633.33
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
					Plan 3						
				2G	Plan 1	193.00	140.70	198.87			239.67
					Plan 2						
					Plan 3						
				3G	Plan 1	2049.00	2969.00	4967.00			4677.87
					Plan 2						
					Plan 3						
				4G	Plans	5400.00		15025.33		30102.42	8234.76
	6	Latency	Data <250ms	All Generations			230.00				
				2G (GSM)		178.00		138.33			190.67
				3G		99.00		68.33			84.00
				CDMA							
			4G		53.00		60.00		47.26	66.67	
7	PDP Context Activation Success Rate	≥95%	All Generations			97.60					
			2G (GSM)		99.91		99.03			99.53	
			3G		100.00		98.13			99.11	
			CDMA								
			4G		96.69		95.49		99.88	99.92	
8	Drop rate :	≤5%	All Generations			2.80					
			2G (GSM)		0.42		2.94			6.31	
			3G		0.56		2.13			0.96	
			CDMA								
			4G		0.17		0.80		0.39	0.47	

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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

Report for quarter ending: Sep 2019

Compliance Status

	Sl. No.	Parameters	Benchmarks	Generations	Compliance Status					
					Airtel	BSNL	Idea	MTNL	Reliance JIO	Vodafone
West Bengal	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	96.41	99.97%		99.80	99.76%
				3G						
	2	Successful data transmission download attempts	>80%	All Generations		100.00				
				2G (GSM)	100.00		98.81			98.81
				3G	100.00		99.52			99.52
				CDMA						
				4G	100.00		99.86		100.00	99.86
	3	Successful data transmission upload attempts	>75%	All Generations		100.00				
				2G (GSM)	100.00		98.81			98.81
				3G	100.00		99.52			99.52
				CDMA						
				4G	100.00		99.81		100.00	99.81
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
					Plan 2					
				2G	Plan 1	70.00	116.00	88.88		88.88
					Plan 2					
				3G	Plan 1	1162.00	5707.99	2123.22		2123.22
					Plan 2					
				4G	Plans	6022.00		4101.14		7619.12
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
					Plan 2					
				2G	Plan 1	117.00	172.00	139.32		139.32
					Plan 2					
				3G	Plan 1	2530.00	8742.99	4948.08		4948.08
					Plan 2					
					Plan 3					
				4G	Plans	7383.00		10998.35		31650.17
	6	Latency	Data <250ms	All Generations			74.00			
				2G (GSM)		234.00		167.67		167.67
				3G		83.00		26.31		26.31
			4G		46.00		24.15	52.20	24.15	
7	PDP Context Activation Success Rate	≥95%	All Generations			95.04				
			2G (GSM)		98.62		99.67		99.67	
			3G		98.62		98.04		98.04	
			CDMA							
			4G		99.94		99.97	99.17	99.97	
8	Drop rate :	≤5%	All Generations							
			2G (GSM)		2.03		4.89		4.89	
			3G		0.57		0.89		0.89	
			CDMA							
			4G		0.93		0.22	0.56	0.22	
		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.								

Note 1: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.