

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

Report for quarter ending: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.92		99.00	100	99.27
				2G			98.00					
				3G			98.00					
	2	Successful data transmission download attempts	>80%	All Generations							100	
				2G (GSM)		100.00	97.40	100.00				100.00
				3G		100.00	99.90	100.00				100.00
				4G		100.00		100.00	100.00			100.00
	3	Successful data transmission upload attempts	>75%	All Generations							100	
				2G (GSM)		100.00	99.40	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	115.00	57.70	73.75			79	73.75
					Plan 1	2143.00	1346.30	4385.82				4385.82
					Plans	12394.00		7524.06		5942.72		7524.06
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	157.00	129.30	162.23			118	162.23
					Plan 1	2746.00	3022.50	5668.41				5668.41
	6	Latency	Data <250ms	All Generations							91.8	
				2G (GSM)		106.00	188.80	133.37				133.37
				3G		70.00	61.40	36.07				36.07
				4G		40.00		31.09		53.50		31.09
	7	PDP Context Activation Success Rate	≥95%	All Generations							97.2	
				2G (GSM)		99.98	100.00	99.72				99.72
				3G		99.96	100.00	98.47				98.47
				4G		99.79		99.40		99.54		99.40
	8	Drop rate :	≤5%	All Generations							1.3	
				2G (GSM)		2.28	0.70	2.36				2.36
				3G		0.64	1.10	0.60				0.60
				4G		0.28		0.80		0.41		0.80

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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Assam	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.85		99.00		1.00
				2G			100.00					
				3G			100.00					
	2	Successful data transmission download attempts	>80%	All Generations								
				2G (GSM)		100.00	98.60	99.10			99.10	
				3G		100.00	98.30	100.00			100.00	
				4G		100.00		99.85		100.00	99.85	
	3	Successful data transmission upload attempts	>75%	All Generations								
				2G (GSM)		100.00	98.60	99.44			99.44	
				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	109.00	81.70	143.67			143.67	
					Plan 2							
				3G	Plan 1	1827.00	1245.00	2132.00			2132.00	
					Plan 2							
					Plan 3							
	4G	Plans	10885.00		6367.67		10128.64	6367.67				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	179.00	145.70	164.39			164.39	
					Plan 2							
				3G	Plan 1	3203.00	2881.70	3414.74			3414.74	
					Plan 2							
	4G	Plans	24307.00		3768.04		32065.27	7368.04				
	6	Latency	Data <250ms	All Generations								
				2G (GSM)		212.00	251.40	202.67			202.67	
				3G		154.00	161.30	209.67			209.67	
				CDMA								
				4G		53.00		40.33		42.48	40.33	
7	PDP Context Activation Success Rate	≥95%	All Generations									
			2G (GSM)		99.83	98.50	99.72			99.72		
			3G		97.49	97.70	98.34			99.72		
			CDMA									
			4G		98.76		99.14		99.85	99.14		
8	Drop rate :	≤5%	All Generations									
			2G (GSM)		3.53		2.82			2.82		
			3G		1.00	1.20	0.41			0.41		
			4G		0.86		0.57		0.41	0.57		

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	TATA	Vodafone			
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.92		99.00	100	99.99	
				2G			100.00						
				3G			100.00						
	2	Successful data transmission download attempts	>80%	All Generations							100		
				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	
	3	Successful data transmission upload attempts	>75%	All Generations							100		
				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								
					Plan 3								
				2G	Plan 1	35.00	61.70	98.00			53	98.00	
					Plan 2		61.70						
				3G	Plan 1	1517.00	803.90	2585.00				2585.00	
					Plan 2		803.90						
					Plan 3								
				4G	Plans	7839.00		3464.67		7480.99		3464.67	
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
	Plan 2												
	Plan 3												
	2G	Plan 1	142.00				116.30	183.67			86	183.67	
		Plan 2					116.30						
	3G	Plan 1	2912.00				1900.80	3280.67				3280.67	
		Plan 2					1900.80						
		Plan 3											
	4G	Plans	11301.00		6266.00		22105.31		6266.00				
	6	Latency	Data <250ms	All Generations							210.04		
				2G (GSM)		151.00	207.30	226.00				226.00	
				3G		97.00	99.10	93.67				93.67	
4G				45.00		72.67		52.25		72.67			
7	PDP Context Activation Success Rate	≥95%	All Generations							96.43			
			2G (GSM)		99.73	97.20	99.49				99.49		
			3G		100.00	96.90	96.52				96.52		
			4G		99.38		97.23		98.93		97.23		
8	Drop rate :	≤5%	All Generations							2.68			
			2G (GSM)		3.78		2.80				2.80		
			3G		0.29	0.90	2.68				2.68		
			4G		0.13		0.37		0.47		0.37		

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	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)		95.94					
				3G		95.94					
				CDMA							
				4G							
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)		97.09					
				3G		97.36					
				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		71.00				
				3G	Plan 1		516.00				
					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		106.00				
				3G	Plan 1		3139.00				
					Plan 2						
					Plan 3						
				4G	Plans						
	6	Latency	Data <250ms	All Generations							
				2G (GSM)		174.00					
				3G		71.00					
				CDMA							
			4G								
7	PDP Context Activation Success Rate	≥95%	All Generations								
			2G (GSM)		98.09						
			3G		97.44						
			CDMA								
			4G								
8	Drop rate :	≤5%	All Generations								
			2G (GSM)		1.90						
			3G		1.94						
			CDMA								
			4G								

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Sl. No.	Parameters	Benchmarks	Generations	Compliance Status									
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone			
Delhi	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00		99.85	98.58	99.00	100	1.00		
	2	Successful data transmission download attempts	>80%	3G									
				All Generations									
				2G (GSM)	99.72		100.00	95.92			99.91		
				3G	99.85		100.00	98.47			100.00		
				CDMA									
	3	Successful data transmission upload attempts	>75%	4G	100.00					100.00		100.00	
				All Generations									
				2G (GSM)	99.72		100.00	90.65			100.00		
				3G	99.97		100.00	98.54			99.91		
				CDMA									
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							0	
					Plan 2								
					Plan 3								
				2G	Plan 1	86.00		53.33	91.47			81.33	
					3G	Plan 1	604.00		1660.33	674.13			1101.33
						Plan 2							
				4G	Plan 3								
					Plans	6753.00					7379.42		5212.67
					CDMA	Plan 1							0
						Plan 2							
	Plan 3												
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	110.00		235.97	195.95			191.57	
					3G	Plan 1	1358.00		5969.00	3766.00			4177.94
						Plan 2							
				4G	Plan 3								
					Plans	17166.00					23363.45		15179.79
	6	Latency	Data <250ms	All Generations				123.00					
				2G (GSM)	229.00		132.00				171.33		
				3G	84.00		54.00				94.67		
				CDMA									
				4G	117.00					33.71		54.33	
7	PDP Context Activation Success Rate	≥95%	All Generations				99.70						
			2G (GSM)	99.98		99.77				99.65			
			3G	100.00		99.40				98.37			
			CDMA										
			4G	97.20					99.79		99.80		
8	Drop rate :	≤5%	All Generations				1.99						
			2G (GSM)	3.44		0.24				1.91			
			3G	0.70		0.61				0.56			
			CDMA										
			4G	0.34					0.37		0.23		

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Gujarat	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.00	99.89		99.00	100	100.00	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		99.00				100		
				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		99.00				100		
				2G (GSM)	100.00		99.92				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	81.00		101.14			63	78.25
				3G	Plan 1	3041.00	1563.00	2514.96				2116.96
					Plan 2					1857		
					Plan 3					3017		
				4G	Plans	6205.00		6520.84		11828.50		6243.97
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
					Plan 3							
				2G	Plan 1	138.00		180.33			115	186.16
				3G	Plan 1	3816.00	4830.00	5100.89				6296.33
					Plan 2					2923		
					Plan 3					4976		
				4G	Plans	8540.00		13279.79		29258.18		11956.69
	6	Latency	Data <250ms	All Generations			85.00				50.8	
				2G (GSM)		223.00		121.54				118.67
				3G		57.00		51.24				63.33
				CDMA								
				4G		32.00		51.83		46.18		29.00
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.70				100	
				2G (GSM)		99.99		98.95				99.30
				3G		99.96		99.02				99.65
				CDMA								
				4G		99.79		98.72		99.79		99.97
	8	Drop rate :	≤5%	All Generations			0.98				4.9	
				2G (GSM)		4.93		0.37				4.32
			3G		0.23		0.49				0.41	
			CDMA									
			4G		0.06		0.62		0.38		0.31	

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				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00	100.00	99.93		99.00	100	100.00
				2G (GSM)								
				3G								
	2	Successful data transmission download attempts	>80%	All Generations			92.00				99.7	
				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			95.00				100	
				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	78.00	79.00	98.00			34	98.00
					Plan 2							
				3G	Plan 1	1249.00	880.00	1920.00				1920.00
					Plan 3							
	4G	Plans	1498.00		6664.00		10455.54		4464.00			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	124.00	111.00	173.00			73	173.00
					Plan 2							
				3G	Plan 1	3226.00	1704.00	4560.00				4560.00
					Plan 3							
	4G	Plans	3544.00		15064.00		28562.95		15064.00			
	6	Latency	Data <250ms	All Generations			84.00				171.7	
				2G (GSM)		236.00		219.67				219.67
				3G		170.00		124.00				124.00
				4G		84.00		104.67		34.36		104.67
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.00				100	
				2G (GSM)		99.79		99.00				99.00
				3G		100.00		98.48				98.48
4G				98.16		99.59		99.88		99.59		
8	Drop rate :	≤5%	All Generations			1.70				0		
			2G (GSM)		2.02		3.57				3.57	
			3G		0.37		0.66				0.66	
			4G		0.55		0.36		0.37		0.36	

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone			
Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.33		99.92		99.00	100	100.00	
				2G (GSM)									
	2	Successful data transmission download attempts	>80%	All Generations		86.67					99.9		
				2G (GSM)	100.00				100.00				100.00
				3G	100.00								100.00
				4G	100.00					100.00			100.00
	3	Successful data transmission upload attempts	>75%	All Generations		86.67						100	
				2G (GSM)	100.00				100.00				100.00
				3G	100.00								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	157.00	72.33		143.82			78.14	143.82
				3G	Plan 1	1013.00	1767.33		1240.32			541.58	1240.32
					Plan 2							519.95	
					Plan 3							1285.09	
				4G	Plans	1707.00			5068.77		12751.34		5068.77
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					Plan 2								
					Plan 3								
				2G	Plan 1	170.00	113.00		181.45			115.77	181.45
				3G	Plan 1	1933.00	1846.33		3113.91			1108.85	3113.91
					Plan 2							1447.61	
					Plan 3							2573.32	
				4G	Plans	11094.00			7946.40		31099.74		7946.40
	6	Latency	Data <250ms	All Generations			109.00					68.2	
				2G (GSM)		232.00			94.76				94.76
				3G		127.00			50.84				50.84
				4G		122.00			46.70		42.27		46.70
	7	PDP Context Activation Success Rate	≥95%	All Generations			97.42					99.2	
				2G (GSM)		99.87			99.65				99.65
				3G		100.00			99.34				99.34
			4G		98.71			99.26		99.76		99.26	
8	Drop rate :	≤5%	All Generations			2.65					1.4		
			2G (GSM)		0.78			4.48				4.48	
			3G		0.03			1.22				1.22	
			4G		0.07			0.43		0.30		0.43	

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Jammu and Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	99.00		98.00		100.00	
				3G							
	2	Successful data transmission download attempts	>80%	All Generations		96.00					
				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		87.00					
				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							
				2G Plan 1	163.00	39.00	102.00			102.00	
				3G Plan 1	443.00	1269.00	2136.00			2136.00	
				4G Plans	25524.00		4292.67		8326.52	4292.67	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1							
				2G Plan 1	199.00	80.00	133.67			133.67	
				3G Plan 1	811.00	2605.00	6005.33			6005.33	
				4G Plans	34505.00		7637.00		26009.97	7637.00	
	6	Latency	Data <250ms	All Generations		182.00					
				2G (GSM)	209.00		203.22			203.22	
				3G	93.00		135.89			135.89	
				4G	58.00		64.89		37.75	64.89	
	7	PDP Context Activation Success Rate	≥95%	All Generations		98.00					
				2G (GSM)	100.00		99.90			99.90	
				3G	100.00		99.16			99.16	
				4G	100.00		98.11		99.96	98.11	
	8	Drop rate :	≤5%	All Generations		1.60					
				2G (GSM)	2.40		3.69			3.69	
3G				0.51		0.96			0.96		
4G				0.46		0.48		0.33	0.48		

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: June 2019														
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status										
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone				
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00		99.89		99.00	100	99.99			
	2	Successful data transmission download attempts	>80%	3G										
				All Generations		96.33			100					
				2G (GSM)	100.00		99.65			100.00				
				3G	100.00		99.56			100.00				
				4G	100.00				100.00	100.00				
	3	Successful data transmission upload attempts	>75%	All Generations		95.00				100				
				2G (GSM)	100.00		98.59			100.00				
				3G	100.00		99.46			100.00				
				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									
				2G	Plan 1	171.00	66.66	114.00			59	169.87		
					Plan 2									
				3G	Plan 1	3702.00	908.30	2364.00				6334.88		
					Plan 2									
					Plan 3									
				4G	Plans	14551.00				11095.82		16006.40		
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
								Plan 2						
	2G	Plan 1	181.00				91.66	148.33			165	201.66		
		Plan 2												
	3G	Plan 1	7131.00				2050.00	4362.00				8667.64		
		Plan 2												
		Plan 3												
	4G	Plans	33750.00				33204.68		21477.45					
	6	Latency	Data <250ms	All Generations		100.00				150.67				
				2G (GSM)	103.00		268.33				124.67			
				3G	44.00		110.67				40.00			
				CDMA										
				4G	31.00				35.56		46.33			
7	PDP Context Activation Success Rate	≥95%	All Generations						100					
			2G (GSM)	100.00	99.79	98.32				96.11				
			3G	99.98	99.86	99.64				81.09				
			CDMA											
			4G	99.46				99.82		99.42				
8	Drop rate :	≤5%	All Generations						1.38					
			2G (GSM)	2.26		1.04				2.34				
			GSM (OSS)											
			3G	0.06		0.04				0.39				
			3G (OSS)											
			4G	0.14				0.26		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: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00		99.89		99.00	100	99.99	
	2	Successful data transmission download attempts	>80%	2G (GSM)								
				All Generations		97.79			100			
				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		97.41				100		
				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	74.00	52.00	144.38			22	153.98
					3G	2686.00	1020.56	2063.09				1931.61
				3G	Plan 1							635
					Plan 2							1103
					Plan 3							
				4G	Plans	6842.00	1459.02	3859.33		6036.55		3205.55
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1				
	Plan 2											
	Plan 3											
	2G	Plan 1	158.00				102.22	175.61			50	182.17
		3G	4659.00				1910.96	4124.02				4101.22
	3G	Plan 1										1544
		Plan 2										142
		Plan 3										
	4G	Plans	15195.00	6120.74	11260.40		25241.29		10591.68			
	6	Latency	Data <250ms	All Generations		122.97				142		
				2G (GSM)	237.00		93.00				58.83	
				3G	87.00		24.17				27.33	
CDMA												
4G				71.00		17.17		40.15		17.17		
7	PDP Context Activation Success Rate	≥95%	All Generations		98.38				100			
			2G (GSM)	99.34		99.72				99.02		
			3G	99.98		98.28				63.64		
			CDMA									
			4G	99.84		99.86		99.79		99.49		
8	Drop rate :	≤5%	All Generations		0.50				0.8			
			2G (GSM)	2.34		2.49				4.19		
			3G	0.18		1.21				1.04		
			CDMA									
			4G	0.01		0.70		0.47		0.08		

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: June 2019**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Karnataka	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	100.00	99.92		99.00	100	99.99	
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	100.00	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						100		
				2G (GSM)	100.00	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	104.00	114.68	153.65			75.04	145.33
					Plan 2							
				3G	Plan 1	1695.00	3506.26					2834.00
					Plan 2						542	
					Plan 3						666	
				4G	Plans	5819.00		9963.68		6161.20		11948.33
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1				
	Plan 2											
	Plan 3											
	2G	Plan 1	188.00				177.57	201.77			89.51	191.28
		Plan 2										
	3G	Plan 1	3648.00				3506.26					7877.85
		Plan 2									1223	
		Plan 3									1484	
	4G	Plans	15873.00					14387.99		26823.95		21868.20
	6	Latency	Data <250ms				All Generations		146.12			
				2G (GSM)	137.00		222.33				155.67	
				3G	69.00						44.00	
CDMA												
4G				19.00		58.00		50.49		45.00		
7	PDP Context Activation Success Rate	≥95%	All Generations		98.83				98.5			
			2G (GSM)	99.38		99.70				99.74		
			3G	99.91						98.30		
			CDMA									
			4G	99.61		98.00		99.34		99.98		
8	Drop rate :	≤5%	All Generations		0.62				1.1			
			2G (GSM)	4.25		2.34				4.24		
			3G	0.17						0.61		
			CDMA									
			4G	0.21		0.14		0.56		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: June 2019													
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status									
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone			
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	99.21	99.91		99.00	100	100.00		
	2	Successful data transmission download attempts	>80%	All Generations		96.81					100		
				2G (GSM)	100.00		99.81				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		96.36					100		
				2G (GSM)	100.00		98.70				100.00		
				3G	100.00		100.00				100.00		
				4G	100.00		99.17		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	102.00	62.70			21.3	137.70	
					3G	Plan 1	1145.00	3962.00	3053.91				2964.00
						Plan 2						1291.46	
				4G	Plan 3								
					Plans	10857.00		10024.26		9476.03		6942.98	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								
					Plan 2								
					Plan 3								
				2G	Plan 1	150.00	118.00	129.73			98.3	171.04	
					Plan 2								
					Plan 3								
				3G	Plan 1	2538.00	4119.00	4440.64				3687.32	
					Plan 2						4272.62		
					Plan 3								
				4G	Plans	17034.00		14533.30		27982.73		7640.09	
	6	Latency	Data <250ms	All Generations		117.00				184.1			
				2G (GSM)	232.00		128.67				232.67		
				3G	60.00		150.00				73.67		
				4G	47.00		29.67		61.79		47.67		
	7	PDP Context Activation Success Rate	≥95%	All Generations		97.28				100			
2G (GSM)				100.00		99.99				99.83			
3G				100.00		99.81				99.57			
4G				100.00		99.05		99.65		99.98			
8	Drop rate :	≤5%	All Generations		2.04				0.6				
			2G (GSM)	0.00		2.07				3.06			
			3G	0.00		1.18				0.64			
			4G	0.00		0.64		0.49		0.24			

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: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Madhya Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.91		99.00	100	99.99
				2G			97.35					
				3G			97.31					
	2	Successful data transmission download attempts	>80%	All Generations							100	
				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
	3	Successful data transmission upload attempts	>75%	All Generations							100	
				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	88.00		96.31			81	96.31
					Plan 2							
				3G	Plan 1	1027.00	1983.30	1908.64				1908.64
					Plan 2						1520	
	4G	Plans	5716.00		7544.87		6477.74		7544.87			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	159.00		172.04			110	172.04
					Plan 2							
				3G	Plan 1	2265.00	2751.00	4300.36				4300.36
					Plan 2						2508	
	4G	Plans	10032.00		9561.06		28211.56		9561.06			
	6	Latency	Data <250ms	All Generations							70	
				2G (GSM)		118.00	198.90	139.87				139.87
				3G		40.00	95.50	92.69				92.69
				4G		47.00		35.02		59.66		35.02
	7	PDP Context Activation Success Rate	≥95%	All Generations							100	
				2G (GSM)		99.97	97.60	99.20				99.20
				3G		99.81	97.50	98.83				98.83
4G				99.68		96.43		99.76		96.43		
8	Drop rate :	≤5%	All Generations							3.7		
			2G (GSM)		4.60		0.59				0.59	
			3G		0.17	1.20	0.87				0.87	
			4G		0.07		0.38		0.37		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: June 2019													
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status									
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone			
Mumbai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	99.00		99.82	97.67	99.00	100	99.94		
	2	Successful data transmission download attempts	>80%	3G									
				2G (GSM)	100.00		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									
				2G (GSM)	100.00		100.00	99.94			100.00		
				3G	100.00			99.50			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							0	
					Plan 2								
				2G	Plan 1	139.00		77.50	53.88				192.78
					3G	2318.00			359.24				7215.25
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							0	
					Plan 2								
				2G	Plan 1	241.00		172.11	75.47				202.57
					3G	4487.00			743.90				8333.76
	6	Latency	Data <250ms	All Generations	2G (GSM)	113.00		84.33				101.67	
					3G	39.00			206.25			19.33	
					4G	28.00		31.00		33.54		18.17	
					All Generations				99.75				
	7	PDP Context Activation Success Rate	≥95%	All Generations	2G (GSM)	99.99		99.85				99.66	
					3G	99.93						97.19	
					4G	99.95		97.86		99.74		99.30	
					All Generations				2.25				
	8	Drop rate :	≤5%	All Generations	2G (GSM)	3.16		0.35				4.89	
					3G	0.04						1.43	
					4G	0.28		0.67		0.37		0.27	
					All Generations								

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: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
North East-I	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.93		99.00		99.63
				2G			100.00					
				3G			100.00					
	2	Successful data transmission download attempts	>80%	All Generations								
				2G (GSM)		100.00	100.00	99.81			99.81	
				3G		100.00	100.00	99.83			99.83	
	3	Successful data transmission upload attempts	>75%	All Generations								
				2G (GSM)		100.00	100.00	99.78			99.78	
				3G		100.00	100.00	99.78			99.78	
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							
				3G	Plan 1	111.00	74.01	173.33			173.33	
					Plan 2	1472.00	1764.33	2746.67			2746.67	
					Plan 3							
				4G		Plans	10628.00		6135.00		7567.27	6135.00
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1				
	3G	Plan 1	173.00				79.43	191.67			191.67	
		Plan 2	3417.00				2673.88	2911.82			2911.82	
		Plan 3										
	4G		Plans				20287.00		6524.01		26405.70	6524.01
	6	Latency	Data <250ms	All Generations								
				2G (GSM)		217.00	242.00	224.33			224.33	
				3G		160.00	161.33	185.33			185.33	
				4G		55.00		47.67		47.60	47.67	
	7	PDP Context Activation Success Rate	≥95%	All Generations								
				2G (GSM)		100.00	95.53	99.72			99.72	
				3G		100.00	94.76	98.34			98.34	
				4G		98.75		99.14		99.81	99.14	
	8	Drop rate :	≤5%	All Generations								
2G (GSM)				2.93		3.88			3.88			
3G				0.58	0.47	0.95			0.95			
4G				1.11		0.47		0.61	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: June 2019				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	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		97.00					
				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		380.00				
					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		968.00				
					Plan 2						
				Plan 3							
				4G	Plans						
	6	Latency	Data <250ms	All Generations		114.00					
				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		0.61						
			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: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Orissa	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00		99.96		99.00	100	99.99
				2G			100.00					
				3G			100.00					
	2	Successful data transmission download attempts	>80%	All Generations							100	
				2G (GSM)		100.00	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							100	
				2G (GSM)		100.00	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	89.00	103.00	59.81			135	178.00
					Plan 2							
				3G	Plan 1	1903.00	2246.33					5332.00
					Plan 3							
	4G	Plans	10213.00		7095.74		6054.76		7095.74			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	155.00	177.33	155.11			148	188.33
					Plan 2							
				3G	Plan 1	3415.00	6159.67					7324.33
					Plan 3							
	4G	Plans	11470.00		9605.64		27112.60		9605.65			
	6	Latency	Data <250ms	All Generations							88.39	
				2G (GSM)		162.00	224.02	117.00				131.33
				3G		57.00	72.61					58.00
				4G		48.00		38.33		48.15		38.33
	7	PDP Context Activation Success Rate	≥95%	All Generations							95.07	
2G (GSM)				99.92	98.85	98.90				96.34		
3G				100.00	98.87					97.35		
4G				98.30		98.94		98.16		99.96		
8	Drop rate :	≤5%	All Generations							1.17		
			2G (GSM)		4.69		2.50				3.40	
			3G		0.80	1.11					0.76	
			4G		0.28		0.34		0.48		0.34	

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: June 2019				Compliance Status								
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Punjab	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	100.00	99.88		99.00	100	100.00	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		98.09				99.8		
				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		96.80				99.9		
				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							
					Plan 3							
				2G	Plan 1	65.00		105.04		36.09	105.04	
				3G	Plan 1	721.00	1855.44	1757.78		704.82	1757.79	
					Plan 2					923.36		
					Plan 3							
				4G	Plans	4039.00		1475.25		9414.86	1475.25	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
					Plan 3							
				2G	Plan 1	105.00		195.00		82.49	195.00	
				3G	Plan 1	1183.00	2900.52	3849.39		1644.47	3849.39	
					Plan 2					1749.92		
					Plan 3							
				4G	Plans	9363.00		7405.39		29705.88	7405.39	
	6	Latency	Data <250ms	All Generations						85.9		
				2G (GSM)	214.00	129.37	246.33				246.33	
				3G	178.00		135.00				135.00	
				4G	92.00		95.00		36.12		95.00	
	7	PDP Context Activation Success Rate	≥95%	All Generations		97.83				100		
				2G (GSM)	99.86		99.00				99.00	
			3G	100.00		98.48				98.48		
			4G	99.05		99.59		99.85		99.59		
8	Drop rate :	≤5%	All Generations		1.47				2.8			
			2G (GSM)	0.63		2.36				2.36		
			3G	0.42		0.39				0.39		
			4G	0.05		0.19		0.19		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: June 2019											
Report for quarter ending: June 2019				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.00	0.99		99.00	100	100.00
				3G							
	2	Successful data transmission download attempts	>80%	All Generations		100.00				100	
				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		100.00				100	
				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						
				2G	Plan 1	102.00	1248.80	132.42		67	116.36
				3G	Plan 1	2556.00	1582.40	2819.61		1882	4200.43
				4G	Plans	15311.00		5869.09		13717.92	6129.34
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
				2G	Plan 1	115.00	2012.90	183.27		76	180.11
				3G	Plan 1	3700.00	2446.70	4405.37		2473	7976.74
				4G	Plans	20857.00		12390.03		34036.15	12349.79
	6	Latency	Data <250ms	All Generations						130.2	
				2G (GSM)	169.00		106.57				117.83
				3G	66.00	90.50	48.97				97.00
				CDMA							
				4G	69.00		37.69		48.35		45.33
	7	PDP Context Activation Success Rate	≥95%	All Generations						100	
				2G (GSM)	99.78		99.64				99.76
				3G	100.00	100.00	98.86				98.82
				CDMA							
				4G	99.41		99.65		99.90		98.84
8	Drop rate :	≤5%	All Generations						4.00		
			2G (GSM)	2.00		0.15				4.30	
			3G	0.56	0.97	0.15				0.69	
			CDMA								
			4G	0.35		0.13		0.36		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: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Tamilnadu	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	100.00	98.81		99.00	100	100.00	
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	100.00	99.29	100.00					
				3G	100.00	99.78						
				CDMA								
				4G	100.00		100.00	100.00				
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	100.00	98.32	100.00					
				3G	100.00	99.71						
				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							
				2G	Plan 1	144.00	70.66	95.44			23	116.83
					Plan 1	4998.00	1034.32					2933.14
					Plans	6686.00		5111.90		7333.37		6436.30
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	214.00	124.53	158.35			70	176.47
					Plan 1	6591.00	1933.60					7160.89
					Plans	11393.00		7560.74		27932.63		13679.31
	6	Latency	Data <250ms	All Generations						193.33		
				2G (GSM)	169.00	341.74	110.93				136.67	
				3G	65.00	181.68					25.83	
				CDMA								
				4G	43.00		31.90		50.83		21.17	
	7	PDP Context Activation Success Rate	≥95%	All Generations						98.39		
				2G (GSM)	100.00	99.96	98.78				99.63	
				3G	99.97	99.27					99.25	
				CDMA								
				4G	99.66		99.86		99.78		99.27	
	8	Drop rate :	≤5%	All Generations						1.1		
				2G (GSM)	1.48	0.12	2.47				4.82	
				3G	0.39	0.07					0.78	
				CDMA								
				4G	0.10		0.29		0.41		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: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Uttar Pradesh (East)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	98.03	99.91		99.00	100	100.00	
	2	Successful data transmission download attempts	>80%	All Generations		86.30				100		
				2G (GSM)	100.00		100.00			99.71		
				3G	100.00		100.00			99.79		
				4G	100.00		100.00	100.00		100.00		
	3	Successful data transmission upload attempts	>75%	All Generations		82.49				100		
				2G (GSM)	100.00		100.00			99.88		
				3G	100.00		100.00			99.82		
				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	69.00	82.66	181.00		110.53	130.15	
				3G	Plan 1	1123.00	2170.00	6252.67			6152.87	
	4G	Plans	4066.00		8086.68		6397.79	19446.00				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
					Plan 3							
				2G	Plan 1	264.00	163.00	242.33		124.66	192.57	
				3G	Plan 1	2891.00	2508.30	9028.00			11169.91	
	4G	Plans	15049.00		10795.92		31565.60	26577.32				
	6	Latency	Data <250ms	All Generations		215.00				109.9		
				2G (GSM)	230.00		200.33			159.94		
				3G	187.00		95.67			44.71		
				4G	112.00		63.33		51.97	73.32		
	7	PDP Context Activation Success Rate	≥95%	All Generations		99.54				100		
				2G (GSM)	99.86		99.80			99.73		
				3G	100.00		99.04			99.42		
				4G	97.73		98.16		99.82	99.92		
	8	Drop rate :	≤5%	All Generations		0.63				1.76		
				2G (GSM)	4.07		2.60			2.18		
				3G	0.31		0.84			0.65		
4G				0.26		0.41		0.43	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: June 2019												
Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	97.80	99.89		99.00	100	100.00	
	2	Successful data transmission download attempts	>80%	2G (GSM)								
				All Generations		94.50			100			
				2G (GSM)	100.00			100.00		100.00		
				3G	100.00			100.00		100.00		
				4G	100.00			100.00		100.00		
	3	Successful data transmission upload attempts	>75%	All Generations		91.60				100		
				2G (GSM)	100.00			100.00		100.00		
				3G	100.00			100.00		100.00		
				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	82.00	97.70	139.67			87	62.63
					3G	1230.00	1940.00	1181.33				1112.17
				3G	Plan 1							
					Plan 2						2676	
					Plan 3							
				4G	Plans	2195.00		7731.00		7318.96		1582.70
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1				
	Plan 2											
	Plan 3											
	2G	Plan 1	180.00				135.00	208.00			127	232.23
	3G	Plan 1	2070.00				2954.00	2399.00				4651.70
		Plan 2									3973	
		Plan 3										
	4G	Plans	5426.00					15259.00		28202.66		8057.52
	6	Latency	Data <250ms	All Generations		226.70				107.2		
				2G (GSM)	177.00		129.33			190.00		
				3G	95.00		64.00			87.33		
				CDMA								
				4G	45.00		62.00		47.03	62.67		
	7	PDP Context Activation Success Rate	≥95%	All Generations		97.60				100		
				2G (GSM)	99.82		99.79			99.48		
				3G	100.00		98.65			99.29		
CDMA												
4G				98.85		95.52		99.87	99.93			
8	Drop rate :	≤5%	All Generations		2.80				2			
			2G (GSM)	0.32		2.31			2.81			
			3G	0.40		2.02			0.70			
			CDMA									
			4G	0.14		0.92		0.32	0.29			

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: June 2019**

**Compliance Status**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
West Bengal	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	95.76	1.00		99.00	100	100.00	
				3G								
	2	Successful data transmission download attempts	>80%	All Generations		100.00					100	
				2G (GSM)	100.00		98.76				98.76	
				3G	100.00		98.67				99.67	
				4G	100.00		99.86		100.00		99.86	
	3	Successful data transmission upload attempts	>75%	All Generations		100.00					100	
				2G (GSM)	100.00		98.86				98.86	
				3G	100.00		99.57				99.57	
				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	76.00	110.67	88.77		74	88.77	
					Plan 2	1259.00	4718.32	2118.17			2118.17	
				4G	Plans	6117.00		4087.17		7579.33	4087.17	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					Plan 2							
				2G	Plan 1	119.00	164.00	139.21		166	139.21	
					Plan 2	2516.00	7540.00	4943.03			4943.03	
				4G	Plans	7426.00		10988.71		30353.30	10988.71	
	6	Latency	Data <250ms	All Generations		56.67					149.83	
				2G (GSM)	231.00		178.67				178.67	
				3G	78.00		33.14				33.14	
				4G	44.00		30.79		51.87		30.79	
	7	PDP Context Activation Success Rate	≥95%	All Generations		94.90					100	
				2G (GSM)	99.62		99.86				98.86	
3G				99.67		98.36				98.36		
CDMA												
4G				99.80		99.97		99.14		99.97		
8	Drop rate :	≤5%	All Generations							4.01		
			2G (GSM)	3.35		4.88				4.88		
			3G	0.50		0.81				0.81		
			3G(OSS)									
			4G	0.78		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.