

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

**Report for quarter ending: Sep 2018**

**Compliance Status**

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	99.00		99.90		100.00	100	100.00	
				2G		98.00						
				3G		98.00						
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	100.00	97.00	99.90				100.00	
				3G	100.00	98.20	100.00					
				4G	100.00		100.00		100.00			
	3	Successful data transmission upload attempts	>75%	All Generations						100		
				2G (GSM)	100.00	96.10	100.00				100.00	
				3G	100.00	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						59(Photon whiz)	
					Plan 2							
				2G	Plan 1	162.00	25.70	145.00			102(EDGE)	165.18
				3G	Plan 1	1953.00	910.70	4088.00				
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						74(Photon whiz)	
					Plan 2							
				2G	Plan 1	197.00	114.00	159.00			125(EDGE)	240.18
				3G	Plan 1	2628.00	2934.60	5904.00				
	6	Latency	Data <250ms	All Generations							135.6	
				2G (GSM)	111.00	227.80	103.00					130.00
				3G	88.00	54.10	36.00					
				4G	45.00		20.00		59.14			
	7	PDP Context Activation Success Rate	≥95%	All Generations							98.5	
				2G (GSM)	99.85	99.70	99.90					99.80
				3G	99.82	99.90	97.96					
				4G	99.63		95.04		99.84			
	8	Drop rate :	≤5%	All Generations							1.5	
2G (GSM)				2.66	0.60	1.90					3.15	
3G				0.39	1.00	0.46						
4G				0.87		81.00		0.45				

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		99.99		97.65		99.59	
				2G		100.00						
				3G		100.00						
	2	Successful data transmission download attempts	>80%	All Generations								
				2G (GSM)	100.00	98.60	100.00				98.20	
				3G	100.00	98.30				100.00	100.00	
	3	Successful data transmission upload attempts	>75%	All Generations								
				2G (GSM)	100.00	98.00	100.00				99.40	
				3G	100.00	97.30					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	118.00	83.00	136.00				116.00
					3G	1992.00	1254.00					2532.00
				4G	Plans	11221.00		8368.00		4265.45		5034.30
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
					2G	201.00	146.00	170.00				182.10
					3G	3039.00	2886.00					4081.70
				4G	Plans	24319.00		14156.00		21240.49		6168.00
	6	Latency	Data <250ms	All Generations								
				2G (GSM)	212.00	252.10	211.00				202.70	
				3G	146.00	162.30					240.30	
				4G	58.00		83.00		45.35		45.30	
	7	PDP Context Activation Success Rate	≥95%	All Generations								
				2G (GSM)	100.00	98.30	99.46				99.60	
				3G	99.95	97.70					97.20	
				4G	100.00		99.35		99.84		99.10	
	8	Drop rate :	≤5%	All Generations								
2G (GSM)				2.90		0.17				3.60		
3G				0.93	1.30					0.70		
4G				1.74		0.74		0.44		0.60		

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		99.94		100.00	100	100.00		
				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						
	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						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							36(photon whiz)	
					Plan 2								
					Plan 3								
				2G	Plan 1	38.00	56.5(2G Postpaid)	55.00				133(EDGE)	129.00
					Plan 2		56.6(prepaid 2G data)						
				3G	Plan 1	1581.00	732.4(3G postpaid data plan)	1221.00					
					Plan 2		732.4(prepaid data plan)						
					Plan 3								
				4G	Plans	7903.00		3838.00			6904.21		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							50(photon whiz)	
					Plan 2								
					Plan 3								
				2G	Plan 1	133.00	110.6(2G postpaid data plans)	158.00				148(EDGE)	161.00
					Plan 2		110.6(prepaid 2G data)						
				3G	Plan 1	3114.00	1871.8(3G postpaid data plan)	3829.00					
					Plan 2		1871.8(prepaid data plan)						
	Plan 3												
	4G	Plans	11288.00		6591.00			26969.90					
	6	Latency	Data <250ms	All Generations							88.75		
2G (GSM)				153.00	204.40	199.00					128.00		
3G				138.00	103.10	99.00							
4G				46.00		81.00		52.10					
7	PDP Context Activation Success Rate	≥95%	All Generations							99.58			
			2G (GSM)	99.96	97.60	99.51					99.60		
			3G	99.97	96.80	95.51							
			4G	98.10		96.60		99.79					
8	Drop rate :	≤5%	All Generations							1.85			
			2G (GSM)	3.95		2.97					2.28		
			3G	0.13	0.90	0.41							
			4G	0.77		0.30		0.52					

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	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95%	All Generations		100.00					
				3G							
	2	Successful data transmission download attempts	>80%	All Generations							
				2G (GSM)		97.04					
				3G		95.87					
				CDMA							
				4G							
	3	Successful data transmission upload attempts	>75%	All Generations							
				2G (GSM)		96.95					
				3G		97.59					
				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		40.00				
				3G	Plan 1		351.00				
					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		101.00				
				3G	Plan 1		3204.00				
					Plan 2						
					Plan 3						
				4G	Plans						
6	Latency	Data <250ms	All Generations								
			2G (GSM)		213.00						
			3G		93.00						
			CDMA								
			4G								
7	PDP Context Activation Success Rate	≥95%	All Generations								
			2G (GSM)		98.40						
			3G		96.07						
			CDMA								
			4G								
8	Drop rate :	≤5%	All Generations								
			2G (GSM)		1.84						
			3G		2.01						
			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%	All Generations	98.00		99.18	98.74	100.00	100	99.92				
	2	Successful data transmission download attempts	>80%	All Generations						100					
				2G (GSM)	99.62		100.00	95.46			100.00				
				3G	99.94		100.00	98.72			99.20				
				CDMA											
				4G	100.00				100.00		98.10				
	3	Successful data transmission upload attempts	>75%	All Generations						100					
				2G (GSM)	99.81		100.00	91.17			99.80				
				3G	99.91		100.00	98.07			99.80				
				CDMA											
				4G	100.00				100.00		97.00				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						11(photon whiz)				
					Plan 2										
					Plan 3										
				2G	Plan 1	78.00		58.00	91.73			69.70			
					3G	Plan 1	950.00		1077.00	696.10			2144.00		
						Plan 2									
				4G	Plan 3										
					Plans	9670.00				6348.34		9340.00			
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						65(photon whiz)	
								Plan 2							
	Plan 3														
	2G	Plan 1	101.00					153.00	100.75			186.60			
		3G	Plan 1				1850.00		5258.00	3767.00			5717.30		
	Plan 2														
	Plan 3														
	4G	Plans	22387.00				23794.99		18842.30						
	6	Latency	Data <250ms	All Generations				118.00		160.7					
				2G (GSM)	227.00		132.00				197.00				
				3G	83.00		55.00				115.00				
				CDMA											
				4G	81.00				30.92		38.00				
7	PDP Context Activation Success Rate	≥95%	All Generations				99.67		97.18						
			2G (GSM)	99.96		99.76				99.80					
			3G	100.00		99.13				98.20					
			CDMA												
			4G	98.83				99.79		99.80					
8	Drop rate :	≤5%	All Generations				2.47		0.36						
			2G (GSM)	2.48		0.22				4.10					
			3G	0.71		0.73				0.70					
			CDMA												
			4G	0.54				0.53		0.20					

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Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Gujarat	1	Service Activation /Provisioning	Within 4 hrs with 95%	All Generations	99.00	98.00	99.71		100.00	100	99.92	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		99.00				100		
				2G (GSM)	100.00		100.00					99.43
				3G	100.00		100.00					99.70
				CDMA								100.00
				4G	100.00		100.00		100.00			
	3	Successful data transmission upload attempts	>75%	All Generations		98.00					100	
				2G (GSM)	100.00		100.00					99.48
				3G	100.00		100.00					99.95
				CDMA								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						73(photon whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	77.00					80(EDGE)	85.55
				3G	Plan 1	4040.00	1227 kbps	2317.00				2006.93
					Plan 2							
					Plan 3						3509(photon3G+)	
				4G	Plans	5172.00		6633.00		8534.82		4897.24
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						85(photon whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	147.00		192.00			134(EDGE)	124.00
				3G	Plan 1	6116.00	2175 kbps	5210.00				5727.26
					Plan 2						3492(photon 3G)	
					Plan 3						5537(photon3G+)	
				4G	Plans	8134.00		16560.00		28693.86		12745.98
	6	Latency	Data <250ms	All Generations			94ms				70	
				2G (GSM)	197.00		96.00					127.67
				3G	52.00		43.00					43.33
				CDMA								
			4G	45.00		38.00		43.75			32.50	
7	PDP Context Activation Success Rate	≥95%	All Generations		98.80					99		
			2G (GSM)	99.99		99.95					99.88	
			3G	99.54		99.96					99.38	
			CDMA								99.96	
			4G	98.91		99.30		99.80				
8	Drop rate :	≤5%	All Generations		1.14					2.5		
			2G (GSM)	4.91		0.34					4.58	
			3G	0.06		0.62					0.51	
			CDMA									
			4G	0.40		0.31		0.42			0.21	

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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	99.90		100.00	100	100.00				
				2G (GSM)											
				3G											
	2	Successful data transmission download attempts	>80%	All Generations		93.00					100				
				2G (GSM)	100.00		100.00					100.00			
				3G	100.00		100.00								
	3	Successful data transmission upload attempts	>75%	All Generations		91.00					100				
				2G (GSM)	100.00		100.00					100.00			
				3G	100.00		100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						33(photon whiz)				
					Plan 2										
				2G	Plan 1	89.00	67.00	75.00			75(EDGE)	134.94			
					3G	1444.00	886.00	2474.00							
					4G	1860.00		2889.00		6138.93					
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						55(photon whiz)	
								Plan 2							
	2G	Plan 1	111.00				1599.00	171.00			113(EDGE)	172.79			
		3G	4028.00					4122.00							
		4G	6613.00					6315.00		24581.76					
	6	Latency	Data <250ms	All Generations		101.00					129.27				
				2G (GSM)	213.00		219.00					107.67			
				3G	177.00		173.00								
				4G	99.00		121.00		37.11						
	7	PDP Context Activation Success Rate	≥95%	All Generations		98.80					98.49				
				2G (GSM)	97.24		100.00					99.92			
				3G	100.00		100.00								
				4G	99.24		100.00		99.89						
	8	Drop rate :	≤5%	All Generations		1.20					0				
2G (GSM)				1.90		0.76					2.27				
3G				0.69		0.91									
4G				0.55		0.70		0.44							

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Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95%	All Generations	100.00	98.67	99.92		100.00	100	99.99	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		86.40				100		
				2G (GSM)	100.00		99.99				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		85.42				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						140.69(Photon whiz)	
					Plan 2							
				2G	Plan 1	164.00	84.00	67.00			87.55(EDGE)	121.93
				3G	Plan 1	1539.00	1017.67	1282.00			1293.58(Photon 3G)	4709.41
					Plan 2						1935.83(photon 3G)	
					Plan 3							
				4G	Plans	1744.00		3541.00		16093.08		7352.36
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						233.48(photon whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	175.00	130.33	126.00			103.86(EDGE)	180.76
				3G	Plan 1	3004.00	1665.00	3198.00			2759.64(photon 3G)	8900.30
					Plan 2						3154.02(photon 3G)	
					Plan 3						3771.85(Photon3G+)	
				4G	Plans	13599.00		10372.00		41113.72		12029.15
	6	Latency	Data <250ms	All Generations			118.33				71.4	
				2G (GSM)		212.00		156.00				77.61
				3G		150.00		65.00				17.54
			4G		82.00		83.00		40.45		14.47	
7	PDP Context Activation Success Rate	≥95%	All Generations			95.66				99		
			2G (GSM)		98.50		99.82				99.85	
			3G		100.00		98.98				99.16	
			4G		98.99		97.42		99.88		99.06	
8	Drop rate :	≤5%	All Generations			4.34				1.2		
			2G (GSM)		1.01		2.69				5.69	
			3G		0.11		1.64				1.19	
			4G		0.03		0.47		0.44		0.57	

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Jammu and Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95%	All Generations	100.00	96.00	99.92		100.00		100.00
				3G							
	2	Successful data transmission download attempts	>80%	All Generations		95.00					
				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		87.00					
				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							
				2G Plan 1	178.00	37.00	131.00				131.00
				3G Plan 1	3721.00	1211.00	1957.00				
				4G Plans	27989.00		3629.00		5389.43		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1							
				2G Plan 1	221.00	67.00	152.00				181.30
				3G Plan 1	4506.00	1878.00	4106.00				
				4G Plans	31061.00		5035.00		22341.40		
	6	Latency	Data <250ms	All Generations		176.00					
				2G (GSM)	213.00		220.00				131.30
				3G	90.00		141.00				
				4G	52.00		91.00		38.23		
	7	PDP Context Activation Success Rate	≥95%	All Generations		97.00					
				2G (GSM)	100.00		100.00				99.90
				3G	100.00		100.00				
				4G	100.00		100.00		99.95		
	8	Drop rate :	≤5%	All Generations		1.50					
				2G (GSM)	2.90		0.34				1.90
			3G	0.99		1.07					
			4G	0.58		0.53		0.43			

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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%	All Generations	99.00		99.58		100.00	100	99.99			
	2	Successful data transmission download attempts	>80%	All Generations		96.00				100				
				2G (GSM)	100.00		99.33			100.00				
				3G	100.00		97.80			100.00				
				CDMA										
				4G	100.00				100.00		100.00			
	3	Successful data transmission upload attempts	>75%	All Generations		94.66				100				
				2G (GSM)	100.00		97.37			100.00				
				3G	100.00		99.37			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						55(photon whiz)			
					Plan 2						948(photon plus)			
				2G	Plan 1	168.00		42.00		96.00			71(EDGE)	160.81
					Plan 2									
				3G	Plan 1	3503.00		646.00		2336.00				4637.91
					Plan 2									
					Plan 3									
				4G	Plans	101777.00						5277.81		9157.03
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						78(photon whiz)			
					Plan 2						1374(photon plus)			
				2G	Plan 1	164.00		79.00		138.00			167(EDGE)	201.39
					Plan 2									
				3G	Plan 1	5468.00		1776.30		4307.00				9509.93
					Plan 2									
					Plan 3									
	4G	Plans	30065.00						29146.69		20282.64			
	6	Latency	Data <250ms	All Generations		113.30					139.67			
				2G (GSM)	103.00		231.00					133.00		
				3G	59.00		118.00					38.00		
				CDMA										
				4G	29.00					66.93			30.00	
7	PDP Context Activation Success Rate	≥95%	All Generations							99.58				
			2G (GSM)	100.00		99.90		99.70			99.97			
			3G	99.95		99.93		98.53			99.97			
			CDMA											
			4G	99.31					99.83			99.98		
8	Drop rate :	≤5%	All Generations							1				
			2G (GSM)	2.45		1.32								
			GSM (OSS)											
			3G	0.13		0.20						0.66		
			3G (OSS)											
			CDMA											
4G	0.04					0.34			0.17					

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 2018**

				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95%	All Generations	100.00		99.79		100.00	100	99.99
				2G (GSM)							
	2	Successful data transmission download attempts	>80%	All Generations		97.50				100	
				2G (GSM)	100.00		100.00				100.00
				3G	100.00		100.00				100.00
				CDMA							
				4G	99.33		100.00		100.00		100.00
	3	Successful data transmission upload attempts	>75%	All Generations		97.40				100	
				2G (GSM)	100.00		100.00				100.00
				3G	98.00		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	114.00	54.38	93.00		51(EDGE)	180.09
				3G	Plan 1	3123.00	797.45	3669.00		979(photon 3G)	6831.81
					Plan 2					1556(photon3G+)	
					Plan 3						
				4G	Plans	3044.00	2764.80	8469.00	5212.26		8781.84
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						
					Plan 2						
					Plan 3						
				2G	Plan 1	194.00	84.17	184.00		78(EDGE)	150.40
				3G	Plan 1	8624.00	1522.02	6752.00		2780(photon 3G)	3911.28
					Plan 2					3507(photon3G+)	
					Plan 3						
				4G	Plans	18418.00	12721.49	15409.00	22691.92		13030.06
	6	Latency	Data <250ms	All Generations		115.49				154.3	
				2G (GSM)	219.00		94.00				58.83
				3G	94.00		32.00				24.17
				CDMA							
			4G	65.00		30.00		46.94		30.67	
7	PDP Context Activation Success Rate	≥95%	All Generations		98.75				100		
			2G (GSM)	99.88		97.79				99.63	
			3G	99.81		97.88				90.23	
			CDMA								
			4G	99.33		98.56		99.86		100.00	
8	Drop rate :	≤5%	All Generations		0.52				2.3		
			2G (GSM)	2.17		2.00				3.87	
			3G	0.03		1.23				1.02	
			CDMA								
			4G	0.51		0.67		0.52		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 2018**

**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%	All Generations	98.00	100.00	99.91		100.00	100	99.99		
	2	Successful data transmission download attempts	>80%	2G (GSM)									
				All Generations					100				
				2G (GSM)	100.00	99.64	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						68.70(Photon whiz)		
					Plan 2								
					Plan 3								
				2G	Plan 1	110.00	43.51	167.00			86.45(EDGE)	236.00	
					3G	Plan 1	1694.00	508.56					4290.80
						Plan 2						1484(Photon 3G)	
				4G	Plan 3						2137(Photon3G+)		
					Plans	5318.00		7172.00		4535.79		11351.40	
					CDMA	Plan 1						74.01(Photon whiz)	
				Plan 2									
				Plan 3									
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	188.00	114.43	167.00		
	3G	Plan 1	3646.00					2232.53					5383.80
		Plan 2										2907(Photon 3G)	
	4G	Plan 3									4184(Photon3G+)		
		Plans	14774.00					12400.00		23893.93		15774.00	
	6	Latency	Data <250ms	All Generations		143.43					56.6		
				2G (GSM)	103.00		138.00					100.60	
				3G	73.00							36.30	
				4G	24.00		9.00		47.02			17.70	
7	PDP Context Activation Success Rate	≥95%	All Generations		29.94					99.7			
			2G (GSM)	99.14		99.65					99.90		
			3G	99.74							80.50		
			4G	99.66		99.60		99.78			99.20		
8	Drop rate :	≤5%	All Generations		0.53					0.9			
			2G (GSM)	3.36		0.49					2.10		
			3G	0.55							0.30		
			4G	0.21		0.07		0.59			0.10		

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 2018**

**Compliance Status**

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%	All Generations	99.00	99.08	99.73		100.00	100	99.94		
	2	Successful data transmission download attempts	>80%	2G (GSM)									
				All Generations		94.75			100				
				2G (GSM)	100.00		100.00			100.00			
				3G	100.00		98.51			100.00			
	3	Successful data transmission upload attempts	>75%	4G	100.00		94.67		100.00		100.00		
				All Generations		91.57			100				
				2G (GSM)	100.00		100.00			100.00			
				3G	100.00		100.00			100.00			
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						66.79(photon whiz)		
					Plan 2								
				2G	Plan 1	81.00		100.00		104.00		43.1(EDGE)	135.26
					Plan 2								
				3G	Plan 1	1926.00		3218.00		2419.00			2483.04
					Plan 2							900.33(photon 3G)	
				Plan 3									
				4G	Plans	10122.00				4854.00		7099.13	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						78.65(photon whiz)		
					Plan 2								
					Plan 3								
				2G	Plan 1	145.00		117.00		176.00		133.56(EDGE)	218.15
					Plan 2								
					Plan 3								
				3G	Plan 1	3112.00		3083.00		4904.00			5550.41
					Plan 2							3260.04(photon 3G)	
					Plan 3								
				4G	Plans	22284.00				11378.00		26357.45	
	6	Latency	Data <250ms	All Generations			122.00				123.6		
				2G (GSM)	227.00		190.00				234.33		
				3G	54.00		126.00				73.33		
				4G	89.00		59.00		60.38		49.67		
	7	PDP Context Activation Success Rate	≥95%	All Generations			96.71				99.6		
2G (GSM)				100.00		99.22				99.89			
3G				100.00		99.97				99.31			
4G				100.00		99.69		99.83		99.98			
8	Drop rate :	≤5%	All Generations			2.19				1.4			
			2G (GSM)	0.00		2.32				4.87			
			3G	0.00		1.24				0.87			
			4G	0.00		0.58		0.61		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 2018**

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		99.20		100.00	100	100.00
				2G			97.17					
				3G			97.21					
	2	Successful data transmission download attempts	>80%	All Generations							100	
				2G (GSM)		99.11	100.00	100.00				100.00
				3G		98.94	100.00	99.72				
	3	Successful data transmission upload attempts	>75%	All Generations							100	
				2G (GSM)		98.93	100.00	99.84				100.00
				3G		98.69	100.00	100.00				
				4G		99.21		99.73		100.00		
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						44(photon whiz)	
					Plan 2							
				2G	Plan 1	83.00		61.00		81(EDGE)	100.98	
					Plan 2							
				4G	Plans	6505.00		2740.00		6824.32		
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					78(photon whiz)		
					Plan 2							
				2G	Plan 1	178.00		115.00		108(EDGE)	177.30	
					Plan 2							
				4G	Plans	11677.00		7356.00		28468.57		
	6	Latency	Data <250ms	All Generations							96.5	
				2G (GSM)		114.00	181.60	120.00				126.90
				3G		44.00	110.00	64.00				
				4G		42.00		46.00		55.90		
	7	PDP Context Activation Success Rate	≥95%	All Generations							99.3	
				2G (GSM)		99.98	96.90	99.46				99.81
				3G		99.76	98.10	98.90				
				4G		99.68		98.37		99.81		
8	Drop rate :	≤5%	All Generations							1.8		
			2G (GSM)		4.77		0.63				2.67	
			3G		0.05	1.00	0.89					
			4G		0.34		0.36		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 2018**

**Compliance Status**

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%	All Generations		97.00		99.38	98.47	99.94	100	99.97	
				3G									
	2	Successful data transmission download attempts	>80%	All Generations							100		
				2G (GSM)		100.00		100.00	99.92			100.00	
				3G		100.00			100.08			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	99.92			100.00	
				3G		100.00			99.00			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							39(photon whiz)	
					Plan 2								
				2G	Plan 1	175.00		83.00	54.25			53(EDGE)	148.27
				3G	Plan 1	3841.00			627.94				4943.75
				4G	Plans	9421.00		5802.00		6088.43			16105.20
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							82(photo whiz)	
					Plan 2								
				2G	Plan 1	226.00		168.00	77.10			108(EDGE)	161.01
				3G	Plan 1	4673.00			934.11				6707.64
				4G	Plans	15547.00		10672.00		22117.48			22914.28
	6	Latency	Data <250ms	All Generations								119.07	
				2G (GSM)		96.00		83.00					92.62
				3G		26.00			209.81				16.67
				4G		19.00		26.00		32.79			16.21
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.87			98.5	
				2G (GSM)		100.00		99.73					99.87
				3G		99.97							97.38
				4G		99.88		99.23		99.80			99.59
	8	Drop rate :	≤5%	All Generations					2.08			2.85	
				2G (GSM)		3.11		0.30					4.67
				3G		0.12							0.83
				4G		0.54		0.71		0.46			0.35

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 2018**

**Compliance Status**

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		99.99		99.50		100.00
				2G			100.00					
				3G			100.00					
	2	Successful data transmission download attempts	>80%	All Generations								
				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	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							
				3G	Plan 1	117.00	74.01	124.00				149.67
					Plan 2							
					Plan 3							
				4G	Plans	11107.00		4034.00		5795.33		5763.73
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							
				3G	Plan 1	181.00	79.43	166.00				199.92
					Plan 2							
					Plan 3							
				4G	Plans	24074.00		7063.00		21700.20		6629.21
	6	Latency	Data <250ms	All Generations								
				2G (GSM)		221.00	234.00	225.00				259.00
				3G		155.00	156.00					203.33
				4G		62.00		84.00		87.09		97.67
	7	PDP Context Activation Success Rate	≥95%	All Generations								
				2G (GSM)		99.96	96.10	99.70				99.60
				3G		99.93	99.38					97.22
				4G		100.00		98.50		99.81		99.15
	8	Drop rate :	≤5%	All Generations								
				2G (GSM)		2.83		0.20				4.41
				3G		1.57	0.48					1.05
4G				1.16		1.76		0.61		0.85		

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 2018**

				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%	All Generations		100.00						
				3G								
	2	Successful data transmission download attempts	>80%	All Generations		98.00						
				2G (GSM)								
				3G								
				4G								
	3	Successful data transmission upload attempts	>75%	All Generations		96.00						
				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		377 kbps					
					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 kbps					
					Plan 2							
					Plan 3							
	4G	Plans										
	6	Latency	Data <250ms	All Generations		114 ms						
				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: Sep 2018**

**Compliance Status**

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		99.68		100.00	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		
	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		
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA							65(photon whiz)	
				Plan 1								
				Plan 2								
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	92.00	100.00	57.00			139(EDGE)	172.00
				3G	Plan 1	1903.00	1723.00					6170.67
					Plan 2							
					Plan 3							
				4G	Plans	10182.00		1997.00		7646.73		10760.20
					CDMA							71(phtoon whiz)
	Plan 1											
	6	Latency	Data <250ms	2G	Plan 1	159.00	172.00	157.00			146(EDGE)	193.67
				3G	Plan 1	3429.00	5601.00					9074.67
					Plan 2							
					Plan 3							
				4G	Plans	11374.00		8226.00		29846.15		14066.00
					All Generations							100.91
	2G (GSM)	164.00	290.74		185.00				126.33			
	7	PDP Context Activation Success Rate	≥95%	3G		57.00	78.38				55.00	
				4G		47.00	95.00		42.47		44.00	
				All Generations							99.58	
				2G (GSM)	99.63	98.76	99.53				99.96	
8	Drop rate :	≤5%	3G		99.65	98.92				98.46		
			4G		98.83	99.55		99.78		99.98		
			All Generations							0.8		
			2G (GSM)	4.04		2.35				2.83		
			3G		0.35	1.16				0.68		
			4G		0.61	0.56		0.49		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 2018**

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%	All Generations	100.00	100.00	99.56	100.00	100	99.99	
				2G (GSM)							
	2	Successful data transmission download attempts	>80%	All Generations		96.86			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		96.00			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					44.42(photon whiz)	
					Plan 2						
					Plan 3						
				2G	Plan 1	89.00		96.00		62.81(EDGE)	145.90
				3G	Plan 1	570.00	1452.33	2197.00		1549.99(photon 3G)	4169.50
					Plan 2					1334.72(photon 3G)	
					Plan 3						
				4G	Plans	2141.00		3695.00	5339.04		4740.50
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					62.61(photon whiz)	
					Plan 2						
					Plan 3						
				2G	Plan 1	127.00		176.00		106.87(EDGE)	185.70
				3G	Plan 1	1161.00	1799.94	4483.00		2100.23(photon 3G)	7011.10
					Plan 2					1977.49(photon 3G)	
					Plan 3						
				4G	Plans	11510.00		6236.00	28741.63		7917.20
	6	Latency	Data <250ms	All Generations						105.2	
				2G (GSM)	204.00		228.00				87.30
			3G	178.00	119.01	98.00				19.10	
			4G	112.00		59.00		35.84		19.30	
7	PDP Context Activation Success Rate	≥95%	All Generations		97.44				99		
			2G (GSM)	98.94		100.00				99.90	
			3G	100.00		100.00				99.00	
			4G	99.13		100.00		99.86		100.00	
8	Drop rate :	≤5%	All Generations		1.48				1.6		
			2G (GSM)	0.37		3.16				3.70	
			3G	0.06		0.35				0.70	
			4G	0.09		0.21		0.28		0.40	

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 2018**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status								
				Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone		
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00	98.00	99.92		100.00	100	99.95	
	2	Successful data transmission download attempts	>80%	3G								
				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						46(photon whiz)	
					Plan 2							
				2G	Plan 1	127.00	1842.4(prepaid)	140.00			77(EDGE)	117.60
				3G	Plan 1	2646.00	1788.80	3189.00				4059.20
				4G	Plans	19466.00		7732.00		12926.12		6189.00
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						74(photon whiz)	
					Plan 2							
				2G	Plan 1	161.00	2020(prepaid)	190.00			92(EDGE)	179.40
				3G	Plan 1	3627.00	1930.40(Postpaid)	6185.00				8169.90
				4G	Plans	22571.00		13807.00		37949.74		12824.70
	6	Latency	Data <250ms	All Generations							143.9	
				2G (GSM)	162.00		101.00					125.00
				3G	71.00	92.00	48.00					95.10
				CDMA								
				4G	69.00		35.00		47.40			45.20
	7	PDP Context Activation Success Rate	≥95%	All Generations							98.6	
				2G (GSM)	99.98		99.60					99.90
				3G	100.00	100.00	98.51					98.70
				CDMA								
				4G	99.84		99.43		99.85			99.60
	8	Drop rate :	≤5%	All Generations							2.80	
				2G (GSM)	2.08		0.12					4.80
				3G	0.51	0.98	0.27					0.90
				CDMA								
4G				0.41		0.07		0.44			0.30	

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 2018**

**Compliance Status**

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%	All Generations	99.00	100.00	99.79		100.00	100	100.00	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations						100		
				2G (GSM)	100.00	99.38	100.00				100.00	
				3G	100.00	99.66					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	98.95	100.00				100.00	
				3G	100.00	99.63					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						18(photon whiz)	
					Plan 2							
				2G	Plan 1	109.00	62.01	89.00			24(EDGE)	108.74
				3G	Plan 1	2878.00	1273.96					2824.05
				4G	Plans	7254.00		5173.00		5851.75		6914.08
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						37(photon whiz)	
					Plan 2							
				2G	Plan 1	206.00	117.44	146.00			69(EDGE)	149.77
				3G	Plan 1	5819.00	2562.18					6177.65
				4G	Plans	16070.00		8174.00		26936.70		13992.90
	6	Latency	Data <250ms	All Generations							204.33	
				2G (GSM)	201.00	414.04	109.00					134.67
				3G	44.00	183.77						26.50
				CDMA								
				4G	38.00		31.00		56.37			14.33
	7	PDP Context Activation Success Rate	≥95%	All Generations							98.53	
				2G (GSM)	99.96	99.66	99.46					99.84
				3G	98.81	99.71						99.25
				CDMA								
				4G	99.52		99.73		99.72			99.98
8	Drop rate :	≤5%	All Generations							0.85		
			2G (GSM)	1.60	0.20	1.89					4.52	
			3G	0.14	0.04						0.72	
			CDMA									
			4G	0.22		0.35		0.39			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 2018**

	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%	All Generations	100.00	97.20	99.94		100.00	100	100.00	
				2G (GSM)								
	2	Successful data transmission download attempts	>80%	All Generations		87.83				100		
				2G (GSM)	100.00		100.00				99.80	
				3G	100.00		100.00				99.70	
				4G	100.00		100.00		100.00		100.00	
	3	Successful data transmission upload attempts	>75%	All Generations		80.70				100		
				2G (GSM)	100.00		100.00				99.80	
				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						70.67(photon whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	89.00	90.00	189.00			114.30(EDGE)	132.70
				3G	Plan 1	1096.00	1921.00	4210.00				6049.10
				4G	Plans	7347.00		6884.00		5763.00		14364.90
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						74.03(photon whiz)	
					Plan 2							
					Plan 3							
				2G	Plan 1	240.00	141.00	209.00			125.14(EDGE)	193.40
				3G	Plan 1	2710.00	2061.00	6715.00				11608.60
				4G	Plans	14620.00		10416.00		26402.17		24180.50
	6	Latency	Data <250ms	All Generations			239.00				109.94	
				2G (GSM)		230.00		218.00				146.40
				3G		197.00		137.00				39.00
				4G		122.00		100.00		43.76		72.70
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.50				100	
				2G (GSM)		99.78		95.43				99.70
				3G		99.62		96.31				99.30
				4G		97.51		97.40		99.82		100.00
	8	Drop rate :	≤5%	All Generations			3.50				0.93	
				2G (GSM)		2.82		2.19				7.40
			3G		0.63		1.15				0.50	
			4G		0.36		0.53		0.45		0.40	

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 2018**

				Compliance Status							
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	Idea	MTNL	Reliance JIO	TATA	Vodafone	
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95%	All Generations	100.00	97.50	99.82		100.00	100	99.98
				2G (GSM)							
	2	Successful data transmission download attempts	>80%	All Generations		94.50				100	
				2G (GSM)	100.00		100.00				100.00
				3G	100.00		100.00				99.75
				CDMA							
				4G	100.00		100.00		100.00		99.43
	3	Successful data transmission upload attempts	>75%	All Generations		91.40				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					80(photon whiz)	
					Plan 2						
					Plan 3						
				2G	Plan 1	91.00	97.00	133.00		100(EDGE)	97.85
				3G	Plan 1	1358.00	1970.70	2946.00		2578(photon 3G)	1600.19
					Plan 2						
					Plan 3						
				4G	Plans	1621.00		6051.00	9677.57		1829.87
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					82(photon whiz)	
					Plan 2						
					Plan 3						
				2G	Plan 1	187.00	129.30	195.00		131(EDGE)	245.56
				3G	Plan 1	2575.00	2969.70	5051.00		4003(photon 3G)	5220.76
					Plan 2						
					Plan 3						
				4G	Plans	3499.00		13555.00	35728.58		7655.07
	6	Latency	Data <250ms	All Generations		223.00				75	
				2G (GSM)	177.00		121.00				198.33
				3G	94.00		36.00				90.33
				CDMA							
			4G	45.00		57.00		43.57		67.67	
7	PDP Context Activation Success Rate	≥95%	All Generations		97.50				99.7		
			2G (GSM)	98.48		98.17				99.83	
			3G	100.00		97.51				98.63	
			CDMA								
			4G	97.41		97.18		99.84		99.93	
8	Drop rate :	≤5%	All Generations		2.50				4		
			2G (GSM)	0.46		1.86				5.56	
			3G	0.49		1.68				1.30	
			CDMA								
			4G	0.45		0.80		0.44		0.41	

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 2018**

**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%	All Generations	100.00	96.24	99.68		100.00	100	100.00		
	2	Successful data transmission download attempts	>80%	All Generations		99.58				100			
				2G (GSM)	100.00		97.13				98.86		
				3G	100.00						99.64		
				CDMA									
				4G	100.00		97.13		100.00		99.86		
	3	Successful data transmission upload attempts	>75%	All Generations		99.50				100			
				2G (GSM)	100.00		82.90				98.63		
				3G	100.00						99.44		
				CDMA									
				4G	100.00		98.07		100.00		99.72		
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						66(photon whiz)		
					Plan 2								
				2G	Plan 1	95.00		174.00		102.00		75(EDGE)	84.00
					Plan 1	1244.00		9887.31					2237.33
				4G	Plans	6849.00			2846.00		6271.15		3665.00
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						80(photon whiz)		
					Plan 2								
				2G	Plan 1	133.00		229.00		136.00		161(EDGE)	128.33
					Plan 1	2456.00		10994.16					4861.96
				4G	Plans	8229.00			12239.00		27832.29		6444.67
	6	Latency	Data <250ms	All Generations		124.00					146.83		
				2G (GSM)	238.00		242.00					181.33	
				3G	50.00							31.33	
				CDMA									
				4G	39.00		90.00		63.55			37.67	
	7	PDP Context Activation Success Rate	≥95%	All Generations						99.58			
				2G (GSM)	99.60		99.91				99.97		
				3G	99.77						98.14		
				CDMA									
				4G	99.73		99.51		99.83		99.98		
	8	Drop rate :	≤5%	All Generations						4.07			
2G (GSM)				2.59		1.06				4.87			
3G				0.52						0.77			
3G(OSS)													
4G				0.81		0.21		0.59		0.27			

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