Mode [Fixed Duration] \geq 768 Kbps & (iv). Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration] \geq 128 Kbps.

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)											
Road	Uploa	Upload Data Throughput [Kbps]					Operator Position				
Noau	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG			
Quetta to Zhob	16071.85	4620.93	17662.64	16913.76	Third	Fourth	First	Second			
Zhob to Quetta	14445.73	5203.71	13526.88	16978.23	Second	Fourth	Third	First			
Lahore to Sargodha	21187.7	6575.18	18402.93	14811.03	First	Fourth	Second	Third			
Lahore to Rawalpindi	18033.43	6342.89	19589.29	21727.77	Third	Fourth	Second	First			
Lahore to Multan	17483.04	6013.29	14095.94	15426.7	First	Fourth	Third	Second			
Islamabad to Kohat	17803.1	7840.56	17885.7	15142.61	Second	Fourth	First	Third			
Mianwali to Bakhar	15141.84	5827.45	12654.66	10180.92	First	Fourth	Second	Third			
Isamabad to D.I Khan	17002.48	5702.02	12255.25	8878.16	First	Fourth	Second	Third			
T.M Panah to Jalalpur Pirwala	17775.52	3989.82	11920.74	14897.28	First	Fourth	Third	Second			
Kot Sabzal to Multan	21654.26	7437.34	12740.01	18210.53	First	Fourth	Third	Second			
Chakdara to Kalam	18683.35	4234.95	17807.99	16642	First	Fourth	Second	Third			
Khuazakhela to Behsam	6975.27	6775.59	15370.44	17500.71	Third	Fourth	Second	First			
Peshawer to DG Khan	18349.59	7774.97	11452.81	16387.45	First	Fourth	Third	Second			

Table 4.6: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] ≥ 768 Kbps

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)									
Pond	Upload Data Throughput [Kbps]				Operator Position				
Road	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
Quetta to Zhob	6192.3	4866.38	8297.9	7990.55	Third	Fourth	First	Second	
Zhob to Quetta	5735.17	4672.48	4846.81	6611.92	Second	Fourth	Third	First	
Lahore to Sargodha	7284.31	5435.75	8569.24	7638.65	Third	Fourth	First	Second	
Lahore to Rawalpindi	5842.5	5562.8	7480.29	7910.14	Third	Fourth	Second	First	
Lahore to Multan	6025.81	5177.9	5219.32	7250.36	Second	Fourth	Third	First	
Islamabad to Kohat	6487.43	5883.52	7538.79	6746.31	Third	Fourth	First	Second	
Mianwali to Bakhar	6502.4	5725.2	6815.23	6831.79	Third	Fourth	Second	First	
Isamabad to D.I Khan	6772.27	5468.01	7257.92	7667.31	Third	Fourth	Second	First	
T.M Panah to J. Pirwala	10779.64	9131.75	11876.7	11559.4	Third	Fourth	First	Second	
Kot Sabzal to Multan	12354.28	10908.75	11046.4	14280.9	Second	Fourth	Third	First	
Chakdara to Kalam	12192.52	9539.01	16882.8	13549.4	Third	Fourth	First	Second	
Khuazakhela to Behsam	10621.75	10256.71	16878.4	13814.4	Third	Fourth	First	Second	
Peshawer to DG Khan	12252.51	10169.19	12301.7	13733.1	Third	Fourth	Second	First	

Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] ≥ 768 Kbps

UPLOAD USER DATA THROUGHPUT IN 4G TECHNOLOGY LOCKED MODE (FIXED DURATION)									
Road	Uplo	Operator Position							
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
Zhob to Quetta	7942.43	4365.81	11787.94	14687.9	Third	Fourth	Second	First	
Lahore to Sargodha	20419.17	5123.96	17036.05	9342.6	First	Fourth	Second	Third	
Lahore to Rawalpindi	19569.5	5166.58	17938.07	14213.99	First	Fourth	Second	Third	
Lahore to Multan	16635.89	5101.13	10309.4	8981.37	First	Fourth	Second	Third	
Islamabad to Kohat	13382.39	7183.49	18471.69	13544.29	Third	Fourth	First	Second	
Mianwali to Bakhar	8658.84	3307.68	10163.53	5274.95	Second	Fourth	First	Third	
Isamabad to D.I Khan	14837.24	5260.72	11068.11	8835.63	First	Fourth	Second	Third	
T.M Panah to J. Pirwala	13494.83	2348.09	10761.36	7004.57	First	Fourth	Second	Third	
Kot Sabzal to Multan	19497.48	5972.93	9416.83	7929.4	First	Fourth	Second	Third	
Chakdara to Kalam	14040.69	3438	16406.1	13690.82	Second	Fourth	First	Third	
Khuazakhela to Behsam	8836.05	3128.51	11945.95	23244.33	Third	Fourth	Second	First	
Peshawer to DG Khan	17372.47	5900.3	9532.04	7745.57	First	Fourth	Second	Third	

Table 4.8: Upload User Data Throughput in 4G Technology Locked Mode [Fixed Duration] ≥ 768 Kbps

UPLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)									
Road	Uploa	Operator Position							
Koad	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
Quetta to Zhob	997.71	1890.55	2742.63	1196.13	Fourth	Second	First	Third	
Lahore to Sargodha	654.73	1218.52	1783.34	634.46	Third	Second	First	Fourth	
Lahore to Rawalpindi	724.45	1174.63	2345.99	608.85	Third	Second	First	Fourth	
Lahore to Multan	1225.36	1224.81	1846.35	760.84	Second	Third	First	Fourth	
Islamabad to Kohat	1322.19	1127.62	1515.2	847.25	Second	Third	First	Fourth	
Mianwali to Bakhar	870.66	1105.53	1158.63	847.64	Third	Second	First	Fourth	
Isamabad to D.I Khan	913.48	1040.11	1698.64	338.79	Third	Second	First	Fourth	
T.M Panah to J. Pirwala	1776.22	2236.29	1173.86	665.92	Second	First	Third	Fourth	
Kot Sabzal to Multan	1482.14	2305.9	1889.79	892.19	Third	First	Second	Fourth	
Chakdara to Kalam	1151.39	917.79	1277.26	1651.27	Third	Fourth	Second	First	
Khuazakhela to Behsam	322.8	975.77	2184.98	1761.51	Fourth	Third	First	Second	
Peshawer to DG Khan	1007.85	1417.77	2184.26	1447.54	Fourth	Third	First	Second	

Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration] ≥ 128 Kbps

4.4. **WEBPAGE LOADING TIME.** As per Cellular Mobile Network Quality of Service (QoS) Regulations 2021, licensees are required to meet <u>Webpage Loading Time threshold of 5 Seconds</u>. The results of Webpage Loading Time is shown in **Table 4.10: Webpage Loading Time < 5 Seconds**.

WEBPAGE LOADING TIME IN TECHNOLOGY AUTO DETECT MODE ON ROADS									
Road	Web	Compliant (Yes/No)							
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
Quetta to Zhob	6.3	6.5	6.3	6.4	No	No	No	No	
Zhob to Quetta	6.2	6.7	7.3	6.5	No	No	No	No	
Lahore to Sargodha	5.8	7.0	5.3	5.6	No	No	No	No	
Lahore to Rawalpindi	5	7	6	5	Yes	No	No	Yes	
Lahore to Multan	6	7	6	6	No	No	No	No	
Islamabad to Kohat	5.5	7.1	6.5	6.2	No	No	No	No	
Mianwali to Bakhar	5.9	6.7	6.6	5.3	No	No	No	No	
Isamabad to D.I Khan	6.1	7.2	6.6	6.1	No	No	No	No	
T.M Panah to J. Pirwala	7.1	7.7	7.3	7.1	No	No	No	No	
Kot Sabzal to Multan	6.5	7.1	6.8	6.1	No	No	No	No	
Chakdara to Kalam	6.6	8.2	6.9	6.3	No	No	No	No	
Khuazakhela to Behsam	6.2	7.7	6.5	5.9	No	No	No	No	
Peshawer to DG Khan	6.6	7.7	7.5	6.6	No	No	No	No	

Table 4.10: Webpage Loading Time < 5 Seconds

4.5. LATENCY. As per Cellular Mobile Network Quality of Service (QoS) Regulations 2021, licensees are required to meet threshold of 75 milliseconds of 4G/LTE Technology & 150 milliseconds of 3G Technology of Latency. The results of QoS KPI Latency is shown in (i). Table 4.11: Latency in Technology Auto Detect Mode < 75 milliseconds, (ii). Table 4.12: Latency in 4G/LTE Technology Locked Mode < 75 milliseconds & (iii) Table 4.13: Latency in 3G Technology Locked Mode < 150 milliseconds.

LATENCY IN TECHNOLOGY AUTO DETECT MODE									
Road	Latency (milliseconds)				Compliant (Yes/No)				
Road	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
Quetta to Zhob	326	280	252	290	No	No	No	No	
Zhob to Quetta	292	299	394	228	No	No	No	No	
Lahore to Sargodha	261	234	217	225	No	No	No	No	