

Mingora	8712.61	2675.15	15842.3	8373.65	Second	Fourth	First	Third
Mardan	9488.24	3782.08	16772.38	7156.32	Second	Fourth	First	Third
Faisalabad	8329.82	5034.13	22310.63	17171.85	Third	Fourth	First	Second
Mastung	4642.36	5162.52	22780.15	15656.11	Fourth	Third	First	Second
Gojra	13089.54	1729.82	15522.32	12282.72	Second	Fourth	First	Third
Multan	10677.65	6141.92	22270.24	28570.62	Third	Fourth	Second	First
Ziarat	N/A	7414.29	16759.8	21429.3	N/A	Third	Second	First
Khuzdar	4700.5	3843.47	7464.09	13504.3	Third	Fourth	Second	First
Usta Muhammad	13266.21	6486.56	18558.83	14189.77	Third	Fourth	First	Second
Sibbi	10309.28	6693.46	18721.12	15905.29	Third	Fourth	First	Second
Abbottabad	10728.76	4369.28	17213.92	9998.18	Second	Fourth	First	Third
Haripur	7544.25	3885.67	18092.52	7577.04	Third	Fourth	First	Second
Khanewal	12808.91	4341.51	20180.56	3713.36	Second	Third	First	Fourth

Table 4.8: Upload User Data Throughput Technology Locked Mode [Fixed Duration] \geq 512Kbps

<i>UPLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)</i>								
<i>City</i>	Auto mode Throughput [Mbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Batkhela	131.89	1318.17	1887.26	1209.85	Fourth	Second	First	Third
Mingora	429.5	1174.07	2302.31	1251.05	Fourth	Third	First	Second
Mardan	758.83	1335.13	3066.23	687.31	Third	Second	First	Fourth
Faisalabad	957.05	1604.69	2747.6	2177.93	Fourth	Third	First	Second
Mastung	N/A	1618.69	2157.15	639.37	N/A	Second	First	Third
Gojra	894.57	1051.61	2833.31	1841.22	Fourth	Third	First	Second
Multan	1090.2	2567.33	3078.48	1806.17	Fourth	Second	First	Third
Ziarat	N/A	2347.71	1063.88	2698.37	N/A	Second	Third	First
Khuzdar	N/A	1088.07	1597.5	994.87	N/A	Second	First	Third
Usta Muhammad	1199.86	1397.93	2739.54	1498.66	Fourth	Third	First	Second
Sibbi	1263.89	1853.51	2549.24	1695.29	Fourth	Second	First	Third
Abbottabad	804.89	1273.79	2511.84	375.08	Third	Second	First	Fourth
Haripur	632.33	1362.35	1901.02	561.02	Third	Second	First	Fourth
Khanewal	1331.77	1552.85	1696.35	1362.22	Fourth	Second	First	Third

Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration] \geq 64Kbps

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

<i>WEBPAGE LOADING TIME IN TECHNOLOGY AUTO DETECT MODE IN CITIES</i>								
<i>City</i>	Webpage Loading Time [Seconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Batkhela	7	7	8	6	No	No	No	No
Mingora	7	8	5	6	No	No	No	No
Mardan	5	7	5	7	No	No	No	No
Faisalabad	6	6	5	6	No	No	No	No
Mastung	7	6	5	7	No	No	No	No
Gojra	6	7	4	6	No	No	Yes	No
Multan	6	6	5	5	No	No	No	No
Ziarat	N/A	6	5	5	N/A	No	No	No
Khuzdar	7	7	6	8	No	No	No	No
Usta Muhammad	6	7	5	6	No	No	No	No
Sibbi	6	6	5	6	No	No	No	No

WEBPAGE LOADING TIME IN TECHNOLOGY AUTO DETECT MODE IN CITIES								
<i>City</i>	Webpage Loading Time [Seconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Abbottabad	6	7	5	6	No	No	No	No
Haripur	7	7	5	6	No	No	No	No
Khanewal	7	7	5	7	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								
<i>City</i>	Latency (milliseconds)				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Batkhela	306	246	249	310	No	No	No	No
Mingora	307	247	222	251	No	No	No	No
Mardan	291	236	238	261	No	No	No	No
Faisalabad	374	229	214	238	No	No	No	No
Mastung	247	233	205	273	No	No	No	No
Gojra	328	255	219	246	No	No	No	No
Multan	214	219	199	221	No	No	No	No
Ziarat	561	218	206	209	No	No	No	No
Khuzdar	289	239	225	271	No	No	No	No
Usta Muhammad	119	64	59	95	No	Yes	Yes	No
Sibbi	218	221	200	224	No	No	No	No
Abbottabad	280	255	227	218	No	No	No	No
Haripur	245	245	217	215	No	No	No	No
Khanewal	219	231	195	225	No	No	No	No

Table 4.11: Latency in Technology Auto Detect Mode < 75 milliseconds

LATENCY IN 4G/LTE TECHNOLOGY LOCKED MODE								
<i>City</i>	Latency [milliseconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Batkhela	97	90	N/A	140	No	No	N/A	No
Mingora	118	90	79	185	No	No	No	No
Mardan	90	95	95	142	No	No	No	No
Faisalabad	75	83	78	78	No	No	No	No
Mastung	137	83	66	60	No	No	Yes	Yes
Gojra	65	99	72	83	Yes	No	Yes	No
Multan	80	78	57	65	No	No	Yes	Yes
Ziarat	N/A	77	59	54	N/A	No	Yes	Yes
Khuzdar	200	78	79	95	No	No	No	No
Usta Muhammad	119	64	59	95	No	Yes	Yes	No
Sibbi	139	87	75	156	No	No	Yes	No
Abbottabad	93	107	83	137	No	No	No	No
Haripur	85	99	73	97	No	No	Yes	No
Khanewal	82	98	55	105	No	No	Yes	No

Table 4.12: Latency in 4G/LTE Technology Locked Mode < 75 milliseconds