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.**

City	*WEBPAGE LOADING TIME IN TECHNOLOGY AUTO DETECT MODE IN CITIES*							
	Webpage Loading Time [Seconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Attock	6.3	6.6	6.5	5.1	No	No	No	No
Hafizabad	6.7	7.6	5.0	6.2	No	No	No	No
Rawalpindi	6.2	6.2	5.7	4.9	No	No	No	Yes
Hyderabad	5.2	5.4	4.9	4.6	No	No	Yes	Yes
Karachi East	6.3	6.1	5.5	5.4	No	No	No	No
Pakpattan	5.8	6.0	4.2	5.5	No	No	Yes	No
Khanpur	7.6	7.4	5.2	6.3	No	No	No	No
Lodhran	7.5	6.9	8.1	6.5	No	No	No	No
Wazirabad	4.8	5.8	4.8	4.8	Yes	No	Yes	Yes

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 <u>threshold of 75 milliseconds of 4G/LTE Technology & 150 milliseconds of 3G Technology of Latency.</u> 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.**

City	*LATENCY IN TECHNOLOGY AUTO DETECT MODE*							
	Latency (milliseconds)				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Attock	241	219	205	208	No	No	No	No
Hafizabad	256	231	226	238	No	No	No	No
Rawalpindi	224	230	212	226	No	No	No	No
Hyderabad	281	215	223	249	No	No	No	No
Karachi East	205	209	195	213	No	No	No	No
Pakpattan	250	245	216	229	No	No	No	No
Khanpur	248	253	201	223	No	No	No	No
Lodhran	216	266	246	275	No	No	No	No
Wazirabad	219	216	225	222	No	No	No	No

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

City	*LATENCY IN 4G/LTE TECHNOLOGY LOCKED MODE*							
	Latency [milliseconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Attock	87	74	67	169	No	Yes	Yes	No
Hafizabad	84	77	78	154	No	No	No	No
Rawalpindi	67	77	71	118	Yes	No	Yes	No
Hyderabad	276	211	223	248	No	No	No	No
Karachi East	N/A				N/A			
Pakpattan	88	84	60	69	No	No	Yes	Yes
Khanpur	78	109	62	84	No	No	Yes	No
Lodhran	68	105	84	77	Yes	No	No	No
Wazirabad	80	74	87	74	No	Yes	No	Yes

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

LATENCY IN 3G TECHNOLOGY LOCKED MODE								
City	Latency [milliseconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Attock	521	504	523	270	No	No	No	No
Hafizabad	537	338	525	172	No	No	No	No
Rawalpindi	504	340	466	206	No	No	No	No
Hyderabad	463	N/A	231	N/A	No	No	No	No
Karachi East	N/A	N/A	N/A	N/A	No	No	No	No
Pakpattan	560	694	388	110	No	No	No	Yes
Khanpur	248	783	505	159	No	No	No	No
Lodhran	243	1021	480	114	No	No	No	Yes
Wazirabad	557	457	499	127	No	No	No	Yes

Table 4.13: Latency in 3G Technology Locked Mode < 150 milliseconds

4.6.   During the survey, the deployed technologies by Cellular Mobile Operators (CMOs), Success Rate of http Transfer Download Tests and Resource Block Utilization have been recorded. The details can be seen in attached graphs.