

LATENCY IN TECHNOLOGY AUTO DETECT MODE								
Road	Latency (milliseconds)				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
<i>Lahore to Islamabad</i>	266	258	215	237	No	No	No	No
<i>Lahore To Sialkot</i>	266	228	268	247	No	No	No	No
<i>Rawalpindi To Turkham</i>	304	237	225	262	No	No	No	No

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

LATENCY IN 4G/LTE TECHNOLOGY LOCKED MODE								
Road	Latency [milliseconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
<i>Hazara Motorway</i>	69.68	119.82	125.24	78.72	Yes	No	No	No
<i>Haripur To Taxila</i>	76.50	105.77	82.28	227.84	No	No	No	No
<i>Pindi Bhatian To Multan</i>	65.00	81.00	93.00	79.00	Yes	No	No	No
<i>Multan to Sukkur</i>	116.59	88.40	133.92	94.14	No	No	No	No
<i>Nowshera To Chitral</i>	90.66	126.42	124.63	151.97	No	No	No	No
<i>Swabi To Katlang</i>	162.04	120.59	105.77	86.65	No	No	No	No
<i>Islamabad To Kohala</i>	73.04	77.25	95.02	184.34	Yes	No	No	No
<i>Islamabad To Peshawar</i>	73.60	201.39	84.72	310.71	Yes	No	No	No
<i>Lahore to Abdul Hakeem</i>	116.73	74.52	89.87	83.52	No	Yes	No	No
<i>Lahore to Islamabad</i>	76.38	89.92	78.16	226.17	No	No	No	No
<i>Lahore To Sialkot</i>	91.16	99.16	77.23	89.92	No	No	No	No
<i>Rawalpindi To Turkham</i>	148.73	110.48	92.70	126.75	No	No	No	No

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

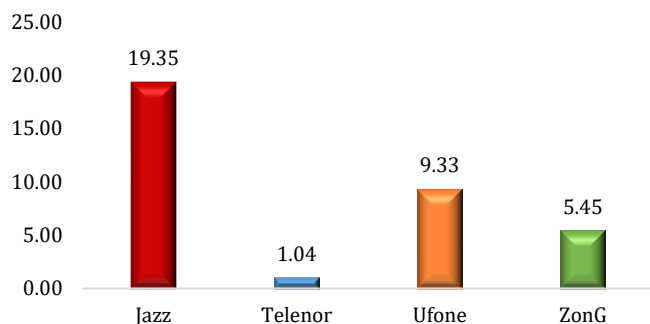
LATENCY IN 3G TECHNOLOGY LOCKED MODE								
Road	Latency [milliseconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
<i>Hazara Motorway</i>	510	337	465	207	No	No	No	No
<i>Haripur To Taxila</i>	547	480	431	187	No	No	No	No
<i>Pindi Bhatian To Multan</i>	253	739	484	204	No	No	No	No
<i>Multan to Sukkur</i>	353	955	602	216	No	No	No	No
<i>Nowshera To Chitral</i>	575	735	480	448	No	No	No	No
<i>Swabi To Katlang</i>	569	377	531	476	No	No	No	No
<i>Islamabad To Kohala</i>	474	294	392	169	No	No	No	No
<i>Islamabad To Peshawar</i>	542	292	430	209	No	No	No	No
<i>Lahore to Abdul Hakeem</i>	468	665	488	147	No	No	No	Yes
<i>Lahore to Islamabad</i>	517	495	459	187	No	No	No	No
<i>Lahore To Sialkot</i>	508	393	448	205	No	No	No	No
<i>Rawalpindi To Turkham</i>	601	425	523	463	No	No	No	No

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

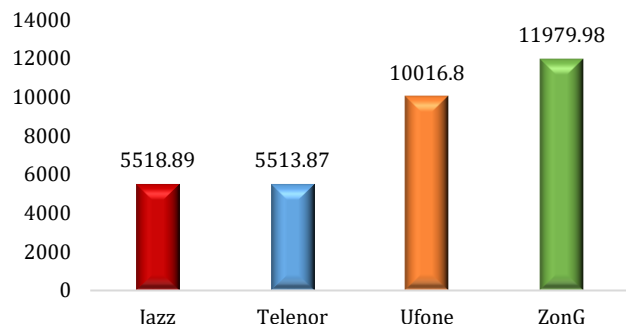
4.6. During the survey, the deployed technologies by Cellular Mobile Operators (CMOs), Success Rate of http Transfer Download Tests and Resource Block Utilization have been recorded. The details can be seen in attached graphs.

QUALITY OF SERVICE SURVEY RESULTS (4G) – SWABI TO KATLANG

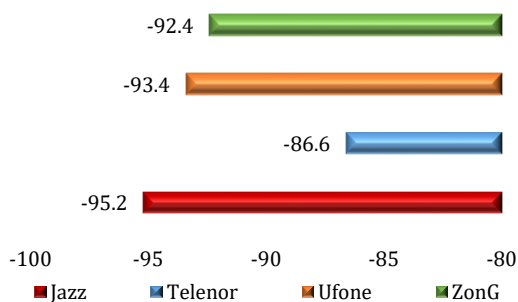
**User Data Throughput Download (4G)
> 2 Mbps**



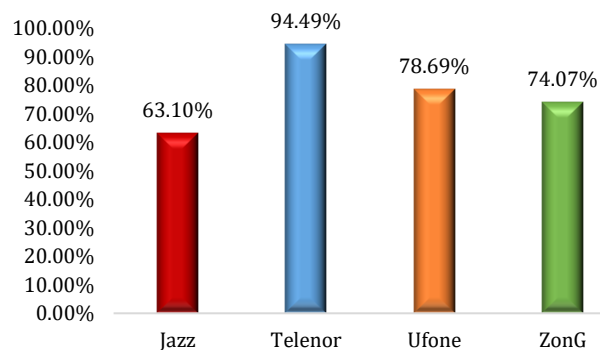
**User Data Throughput Upload (4G)
> 512 Kbps**



Signal Strength (RSRP) > -100dBm



Signal Strength (RSRP) Confidence Level > 90%



Latency (4G) <75 ms

