LATENCY IN TECHNOLOGY AUTO DETECT MODE								
Road	Latency (milliseconds)				Compliant (Yes/No)			
Roau	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Lahore to Rawalpindi	255	242	221	223	No	No	No	No
Lahore to Multan	242	237	304	239	No	No	No	No
Islamabad to Kohat	243	246	257	295	No	No	No	No
Mianwali to Bakhar	337	262	307	268	No	No	No	No
Isamabad to D.I Khan	255	342	285	314	No	No	No	No
T.M Panah to J. Pirwala	242	243	319	218	No	No	No	No
Kot Sabzal to Multan	232	220	319	211	No	No	No	No
Chakdara to Kalam	280	238	262	223	No	No	No	No
Khuazakhela to Behsam	588	266	471	270	No	No	No	No
Peshawer to DG Khan	269	260	308	246	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)			
Road	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Zhob to Quetta	165	103	104	151	No	No	No	No
Lahore to Sargodha	66	85	88	69	Yes	No	No	Yes
Lahore to Rawalpindi	87	90	88	216	No	No	No	No
Lahore to Multan	95	98	80	98	No	No	No	No
Islamabad to Kohat	82	87	87	154	No	No	No	No
Mianwali to Bakhar	160	133	119	114	No	No	No	No
Isamabad to D.I Khan	108	116	117	141	No	No	No	No
T.M Panah to J. Pirwala	69	93	131	79	Yes	No	No	No
Kot Sabzal to Multan	70	89	106	69	Yes	No	No	Yes
Chakdara to Kalam	97	97	115	106	No	No	No	No
Khuazakhela to Behsam	198	130	123	217	No	No	No	No
Peshawer to DG Khan	112	116	111	103	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
Quetta to Zhob	513	996	458	391	No	No	No	No
Lahore to Sargodha	607	493	521	137	No	No	No	Yes
Lahore to Rawalpindi	489	389	506	136	No	No	No	Yes
Lahore to Multan	351	496	446	117	No	No	No	Yes
Islamabad to Kohat	577	453	445	285	No	No	No	No
Mianwali to Bakhar	381	930	492	375	No	No	No	No
Isamabad to D.I Khan	574	600	467	371	No	No	No	No
T.M Panah to J. Pirwala	169	1185	292	107	No	No	No	Yes
Kot Sabzal to Multan	243	1025	509	111	No	No	No	Yes
Chakdara to Kalam	521	693	518	387	No	No	No	No
Khuazakhela to Behsam	642	561	521	683	No	No	No	No
Peshawer to DG Khan	643	719	585	399	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.

VOICE CALLS – COMPLIANCE (YES/NO)									
Operator	*Voice KPIs	Islamabad to D.I Khan	T.M Panah to J. Pirwala	Kot Sabzal to Multan	Chakdara to Kalam	Khuazakhela to Behsam	Peshawer to DG Khan.		
	NA	Yes	Yes	Yes	Yes	No	Yes		
	SA	No	Yes	Yes	Yes	No	No		
	CCT	Yes	Yes	Yes	Yes	No	Yes		
Jazz	CCR	No	Yes	No	Yes	Yes	Yes		
<u>~</u>	MOS	Yes	Yes	Yes	Yes	No	No		
	ISHO	Yes	Yes	No	No	Yes	Yes		
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes		
	NA	No	Yes	Yes	Yes	Yes	Yes		
	SA	No	No	No	No	No	No		
o _	CCT	No	Yes	Yes	Yes	Yes	Yes		
Telenor	CCR	No	No	No	Yes	No	No		
Te	MOS	No	Yes	Yes	Yes	Yes	Yes		
	ISHO	Yes	No	No	No	Yes	No		
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes		
	NA	No	Yes	Yes	Yes	No	Yes		
	SA	No	No	Yes	Yes	No	No		
e e	CCT	Yes	No	No	Yes	Yes	Yes		
Ufone	CCR	No	Yes	Yes	Yes	Yes	No		
P [	MOS	No	No	No	Yes	No	No		
	ISHO	No	No	No	Yes	No	No		
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes		
	NA	No	Yes	Yes	Yes	No	Yes		
	SA	No	Yes	Yes	Yes	No	No		
<del>ن</del>	CCT	Yes	Yes	Yes	Yes	Yes	Yes		
ZonG	CCR	No	Yes	Yes	Yes	Yes	No		
Z	MOS	Yes	Yes	Yes	Yes	Yes	Yes		
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes		
	ISHO	N/A Possibility (NA) > 99% Se	N/A	N/A	N/A	N/A	N/A		

<sup>\*</sup> Note Voice QoS KPIs: Network Accessibility (NA) > 99%, Service Accessibility (SA) > 98%, Call Connection Time (CCT) ≤ 7.5 Seconds, Call Completion Ratio (CCR) ≥ 98%, Mean Opinion Score (MOS) > 3, Inter System Hand Over (ISHO) > 98% & RAB Setup Success Rate (RSSR) > 98%

Table 5.2: Voice QoS KPIs Compliance Level