	DESCRIPTION			JAZZ	TELENOR	UFONE	ZONG
Ookla Tests	THROUGHPUT TEST	DOWNLOAD	ATTEMPTS	10296	10397	10412	9826
			SPEED (Mbps)	35.085	5.71	10.565	26.891
		UPLOAD	ATTEMPTS	10296	10397	10412	9826
			SPEED (Mbps)	26.198	6.591	18.676	22.744
	PING TEST	ATTEMPTS		10296	10397	10412	9826
		LATENCY (msec)		35.3	44.6	38.5	50.4

Table 4.8: Ookla Tests Statistics

OOKLA DOWNLOAD THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE								
Cities	Download Throughput (Mbps)				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
BATTAGRAM	28.7	1.9	12.1	24.85	First	Fourth	Third	Second
BESHAM	66	2.7	N/A	37.2	First	Third	N/A	Second
DADU	26.8	7	8	27.1	Second	Fourth	Third	First
DASKA	26.2	5.3	20.0	30.9	Second	Fourth	Third	First
DERA ALLAH YAR	26.3	5.8	6.09	20.11	First	Fourth	Third	Second
GHOTKI	22.8	9.3	6	19.6	First	Third	Fourth	Second
ISLAMABAD	36.27	3.27	9.4	21.54	First	Fourth	Third	Second
JHANG	47.31	11.54	5.88	29.76	First	Third	Fourth	Second
KHUSHAB	30.09	10.29	8.08	33.9	Second	Third	Fourth	First
MUZAFARGARH	22.3	19	7.93	31.63	Second	Third	Fourth	First
MIRPUR KHAS	36.2	7.1	13.4	27.75	First	Fourth	Third	Second
NOWSHERA	37.4	5.0	9.2	22.1	First	Fourth	Third	Second
OKARA	29.5	8.5	14.16	32.2	Second	Fourth	Third	First
PESHAWAR	30.6	4.2	6.5	20.0	First	Fourth	Third	Second
QUETTA	33.6	11.7	6.5	15.58	First	Third	Fourth	Second
SEHWAN	21.7	6.8	7.8	31.83	Second	Fourth	Third	First
THATTA	42.9	8.9	8.8	28.62	First	Third	Fourth	Second

Table 4.9: Ookla Download Throughput in Technology Auto Detect Mode

OOKLA UPLOAD THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE								
Cities	Upload Throughput (Kbps)				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
BATTAGRAM	32.1	4.2	21.88	22.9	First	Fourth	Third	Second
BESHAM	28.8	4.6	N/A	16.8	First	Third	N/A	Second
DADU	25	3.6	16.8	31.8	Second	Fourth	Third	First
DASKA	18.5	5.3	17.2	27.6	Second	Fourth	Third	First
DERA ALLAH YAR	34.7	4.6	17.97	15.3	First	Fourth	Second	Third
GHOTKI	26	5.6	17.1	29	Second	Fourth	Third	First
ISLAMABAD	24.18	7.15	17.66	17.95	First	Fourth	Third	Second
JHANG	25.61	5.36	23.18	37.32	Second	Fourth	Third	First
KHUSHAB	30.72	9.1	17.35	28.7	First	Fourth	Third	Second
MUZAFARGARH	26.5	9.4	17.16	25.3	First	Fourth	Third	Second
MIRPUR KHAS	19.6	4.8	25.05	23.05	Third	Fourth	First	Second
NOWSHERA	29.1	8.9	18.5	20.7	First	Fourth	Third	Second

OOKLA UPLOAD THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE								
Cities	Upload Throughput (Kbps)				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
OKARA	23.9	7.5	20.17	26.74	Second	Fourth	Third	First
PESHAWAR	24.5	6.7	14.7	16.6	First	Fourth	Third	Second
QUETTA	20.9	7.1	14.37	12.29	First	Fourth	Second	Third
SEHWAN	13.1	6.3	16.83	30.81	Third	Fourth	Second	First
THATTA	29.2	7.1	22.3	31.86	Second	Fourth	Third	First

Table 4.10: Ookla Upload Throughput in Technology Auto Detect Mode

OOKLA LATENCY IN TECHNOLOGY AUTO DETECT MODE								
City	Latency [milliseconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
BATTAGRAM	27	48	22	34	Yes	Yes	Yes	Yes
BESHAM	29	43	N/A	76	Yes	Yes	N/A	No
DADU	32	29	58	26	Yes	Yes	Yes	Yes
DASKA	46	19	28	15	Yes	Yes	Yes	Yes
DERA ALLAH YAR	32	52	34	35	Yes	Yes	Yes	Yes
GHOTKI	25	38	35	42	Yes	Yes	Yes	Yes
ISLAMABAD	22	41	27	68	Yes	Yes	Yes	Yes
JHANG	28	54	70	36	Yes	Yes	Yes	Yes
KHUSHAB	27	57	93	36	Yes	Yes	No	Yes
MUZAFARGARH	53	56	49	32	Yes	Yes	Yes	Yes
MIRPUR KHAS	25	185	27	28	Yes	No	Yes	Yes
NOWSHERA	33	35	25	66	Yes	Yes	Yes	Yes
OKARA	49	36	61	29	Yes	Yes	Yes	Yes
PESHAWAR	41	45	32	83	Yes	Yes	Yes	No
QUETTA	30	47	55	45	Yes	Yes	Yes	Yes
SEHWAN	35	44	26	3	Yes	Yes	Yes	Yes
THATTA	27	42	27	26	Yes	Yes	Yes	Yes

Table 4.11: Ookla Latency in Technology Auto Detect Mode < 75 Milliseconds

4.6. Overall results of Download and Upload Throughputs in Capacity Tests, Data Transfer Tests, Latency (overall) and Latency (Per Web Page), can be seen in attached graphs.

TECHNOLOGY AUTO DETECT MODE TESTING	
CAPACITY TEST DOWNLOAD SPEED (Mbps)	CAPACITY TEST UPLOAD SPEED (Mbps)