

Karachi South	13.35	7.48	7.68	14.16	Second	Fourth	Third	First
Shujabad	11.17	7.46	7.55	15.33	Second	Fourth	Third	First
Kabirwala	9.83	7.89	6.74	13.86	Second	Third	Fourth	First
Chichawatni	12.74	6.06	10.46	15.05	Second	Fourth	Third	First

Table4.3: Download User Data Throughput Technology Auto Detect Mode [Fixed Size] \geq 3Mbps

DOWNLOAD USER DATA THROUGHPUT IN 4G/LTE TECHNOLOGY LOCKED MODE (FIXED DURATION)								
City	Download User Data Throughput [Mbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Karachi Central	30.30	11.74	13.42	19.17	First	Fourth	Third	Second
Karachi Kemari	17.58	8.61	8.97	18.87	Second	Fourth	Third	First
Karachi Malir	16.54	6.06	8.31	14.03	First	Fourth	Third	Second
Nankana Sahib	13.29	6.46	10.71	25.97	Second	Fourth	Third	First
Nowshera	17.92	2.89	3.95	16.42	First	Fourth	Third	Second
Muridke	16.07	5.38	15.26	21.89	Second	Fourth	Third	First
Swabi	21.76	2.18	3.68	17.97	First	Fourth	Third	Second
Karak	28.95	2.73	3.51	32.00	Second	Fourth	Third	First
Depalpur	11.23	3.47	13.74	25.13	Third	Fourth	Second	First
Karachi West	30.80	7.32	15.70	15.65	First	Fourth	Second	Third
Karachi South	24.28	9.40	8.39	26.19	Second	Third	Fourth	First
Shujabad	13.57	4.15	5.71	22.31	Second	Fourth	Third	First
Kabirwala	14.96	8.37	6.28	24.98	Second	Third	Fourth	First
Chichawatni	22.88	6.60	17.36	26.84	Second	Fourth	Third	First

Table 4.4: Download User Data Throughput 4G/LTE Technology Locked Mode [Fixed Duration] \geq 3Mbps

DOWNLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)								
City	Download User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Karachi Central	3393.99	4443.91	5255.74	2109.3	Third	Second	First	Fourth
Karachi Kemari	2308.28	2468.72	3981.99	1999.77	Third	Second	First	Fourth
Karachi Malir	2373.41	2877.69	4423.65	2099.68	Third	Second	First	Fourth
Nankana Sahib	3359.08	3193.95	3066.48	3386.65	Second	Third	Fourth	First
Nowshera	2702.8	2049.17	2939.4	1957.11	Second	Third	First	Fourth
Muridke	1131.4	2445.87	4848.49	3478.68	Fourth	Third	First	Second
Swabi	2425.24	1595.21	2845.02	2045.36	Second	Fourth	First	Third
Karak	2688.54	2869.48	2300.43	3143.17	Third	Second	Fourth	First
Depalpur	3605.05	1449.93	5479.24	3716.06	Third	Fourth	First	Second
Karachi West	3628.18	2497.29	5947.02	2015.44	Second	Third	First	Fourth
Karachi South	1972.13	3377.41	3372.16	1619.51	Third	First	Second	Fourth
Shujabad	2292.99	2622.89	1776.08	3614.33	Third	Second	Fourth	First
Kabirwala	2625.52	2652.13	1972.59	3665.17	Third	Second	Fourth	First
Chichawatni	2611.62	3374.82	4147.75	3406.08	Fourth	Third	First	Second

Table 4.5: Download User Data Throughput IN 3G Technology Locked Mode [Fixed Duration] \geq 512Kbps

4.3. **UPLOAD USER DATA THROUGHPUT.** As per Cellular Mobile Network Quality of Service (QoS) Regulations 2021, licensees are required to meet the threshold of minimum of 786Kbps of 4G/LTE & 128Kbps of 3G of Upload User Data Throughput. The results of Data Service QoS KPI i.e. Upload User Data Throughput is shown in (i). **Table 4.6: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] \geq 768Kbps**, (ii). **Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] \geq 768Kbps**, (iii). **Table 4.8: Upload User Data Throughput in 4G/LTE Technology Locked**

Mode [Fixed Duration] ≥ 768 Kbps & (iv). Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration] ≥ 128 Kbps.

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)								
City	Upload User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Karachi Central	30406.12	6388.44	23239.33	22085.14	First	Fourth	Second	Third
Karachi Kemari	27060.4	7088.09	20412.14	21124.78	First	Fourth	Third	Second
Karachi Malir	24759.97	6060.69	20383.61	22817.92	First	Fourth	Third	Second
Nankana Sahib	28426.61	10487.9	16104.42	18884.18	First	Fourth	Third	Second
Nowshera	25347.88	6374.91	16541.34	22181.44	First	Fourth	Third	Second
Muridke	25662.09	7969.82	19704.52	12045.78	First	Fourth	Second	Third
Swabi	19649.63	5127.31	15677.63	23113.48	Second	Fourth	Third	First
Karak	26379.4	7921.03	15840.94	22859.2	First	Fourth	Third	Second
Depalpur	27627.1	6824.65	20165.05	15428.62	First	Fourth	Second	Third
Karachi West	30540.5	7739.21	11046.53	23122.86	First	Fourth	Third	Second
Karachi South	27652.94	5679.64	19457.88	18169.97	First	Fourth	Second	Third
Shujabad	17554.09	5272.21	13425.98	18792.24	Second	Fourth	Third	First
Kabirwala	24872.94	4892.18	17125.22	14663.66	First	Fourth	Second	Third
Chichawatni	26473.1	5450.92	19440.25	25475.68	First	Fourth	Third	Second

Table 4.6: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] ≥ 768 Kbps

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)								
City	Upload User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Karachi Central	10643.65	5577.71	9605.32	8714.54	First	Fourth	Second	Third
Karachi Kemari	9158.96	5326.32	6974.23	6146.81	First	Fourth	Second	Third
Karachi Malir	8570.04	5363.18	8086.03	7215.77	First	Fourth	Second	Third
Nankana Sahib	7385.49	7079.52	7293.79	7569.03	Second	Fourth	Third	First
Nowshera	14103.14	9924.45	11919.5	15346.14	Second	Fourth	Third	First
Muridke	8377.86	5302.77	6439.53	5773	First	Fourth	Second	Third
Swabi	10046.95	8726.57	11153.8	15237.57	Third	Fourth	Second	First
Karak	14906.77	10626.6	10902.14	15831.5	Second	Fourth	Third	First
Depalpur	8102.06	4839.55	6402.35	6496.86	First	Fourth	Third	Second
Karachi West	10505.3	5577.75	6839.67	6713.75	First	Fourth	Second	Third
Karachi South	10001.13	4832.17	6915.82	6265.75	First	Fourth	Second	Third
Shujabad	12656.98	9823.41	13183.64	12453.28	Second	Fourth	First	Third
Kabirwala	12884.23	8314.92	12659.05	12099.25	First	Fourth	Second	Third
Chichawatni	7624.44	4354.03	6285.8	6296.47	First	Fourth	Third	Second

Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] ≥ 768 Kbps

UPLOAD USER DATA THROUGHPUT IN 4G TECHNOLOGY LOCKED MODE (FIXED DURATION)								
City	Upload User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Karachi Central	29199.16	6497.95	23089.94	20797.17	First	Fourth	Second	Fourth
Karachi Kemari	27910.52	4880.88	12398.17	11616.64	First	Fourth	Second	Third
Karachi Malir	20068.82	4785.98	16469.01	17157.32	First	Fourth	Third	Second
Nankana Sahib	27812.03	8390.91	14039.86	12548.6	First	Fourth	Second	Third
Nowshera	26578.87	4906.47	15546.49	19994.7	First	Fourth	Third	Second
Muridke	24927.18	4333.3	13638.27	6449.46	First	Fourth	Second	Third