

<i>Khanpur</i>	4.28	4.59	9.49	6.19	Fourth	Third	First	Second
<i>Lodhran</i>	3.45	3.26	2.74	4.65	Second	Third	Fourth	First
<i>Wazirabad</i>	26.51	7.31	25.28	27.43	Second	Fourth	Third	First

**Table4.2: Download User Data Throughput Technology Auto Detect Mode [Fixed Duration]  $\geq$  2Mbps**

<b>DOWNLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)</b>								
<b>City</b>	<b>User Data Throughput [Mbps]</b>				<b>Operator Position</b>			
	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>
<i>Attock</i>	4.24	2.93	3.91	4.38	Second	Fourth	Third	First
<i>Hafizabad</i>	4.20	3.43	6.88	6.37	Third	Fourth	First	Second
<i>Rawalpindi</i>	7.16	4.31	5.29	8.53	Second	Fourth	Third	First
<i>Hyderabad</i>	7.62	4.57	6.47	8.69	Second	Fourth	Third	First
<i>Karachi East</i>	11.40	9.29	9.67	12.29	Second	Fourth	Third	First
<i>Pakpattan</i>	6.65	7.82	14.18	7.98	Fourth	Third	First	Second
<i>Khanpur</i>	3.46	2.38	3.37	2.95	First	Fourth	Second	Third
<i>Lodhran</i>	<b>1.79</b>	<b>1.81</b>	<b>1.93</b>	<b>1.63</b>	<b>Third</b>	<b>Second</b>	<b>First</b>	<b>Fourth</b>
<i>Wazirabad</i>	12.74	6.29	12.55	12.94	Second	Fourth	Third	First

**Table4.3: Download User Data Throughput Technology Auto Detect Mode [Fixed Size]  $\geq$  2Mbps**

<b>DOWNLOAD USER DATA THROUGHPUT IN 4G/LTE TECHNOLOGY LOCKED MODE (FIXED DURATION)</b>								
<b>City</b>	<b>User Data Throughput [Mbps]</b>				<b>Operator Position</b>			
	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>
<i>Attock</i>	11.30	2.42	<b>0.61</b>	4.19	First	Third	<b>Fourth</b>	Second
<i>Hafizabad</i>	6.10	2.25	23.67	18.49	Third	Fourth	First	Second
<i>Rawalpindi</i>	13.28	3.42	7.69	15.72	Second	Fourth	Third	First
<i>Hyderabad</i>	17.71	8.80	14.16	18.39	Second	Fourth	Third	First
<i>Karachi East</i>	12.12	12.24	13.34	20.64	Fourth	Third	Second	First
<i>Pakpattan</i>	5.10	10.16	28.36	8.98	Fourth	Second	First	Third
<i>Khanpur</i>	4.93	9.26	16.85	7.63	Fourth	Second	First	Third
<i>Lodhran</i>	9.31	6.41	<b>1.86</b>	9.04	First	Third	<b>Fourth</b>	Second
<i>Wazirabad</i>	17.34	4.54	22.69	23.07	Third	Fourth	Second	First

**Table 4.4: Download User Data Throughput 4G/LTE Technology Locked Mode [Fixed Duration]  $\geq$  2Mbps**

<b>DOWNLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)</b>								
<b>City</b>	<b>User Data Throughput [Kbps]</b>				<b>Operator Position</b>			
	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>
<i>Attock</i>	1834.6	3412.95	1923.16	1098.75	Third	First	Second	Fourth
<i>Hafizabad</i>	2280.07	1293.84	4783.55	1999.91	Second	Fourth	First	Third
<i>Rawalpindi</i>	4501.05	2439.69	3350.17	1871.2	First	Third	Second	Fourth
<i>Hyderabad</i>	2133.61	3387.4	3468.7	1391.58	Third	Second	First	Fourth
<i>Karachi East</i>	2233.88	4018.89	4373.47	2526.04	Fourth	Second	First	Third
<i>Pakpattan</i>	3594.84	3923.9	8898.88	1938.59	Third	Second	First	Fourth
<i>Khanpur</i>	1851.68	2796.31	3331.04	1292.49	Third	Second	First	Fourth
<i>Lodhran</i>	2278.56	2781.33	2854.97	1742.59	Third	Second	First	Fourth
<i>Wazirabad</i>	1708.86	2906.23	5171.48	2067.32	Fourth	Second	First	Third

**Table 4.5: Download User Data Throughput IN 3G Technology Locked Mode [Fixed Duration]  $\geq$  256Kbps**

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 512Kbps of 4G/LTE & 64Kbps 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]  $\geq$  512Kbps,** (ii). **Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size]  $\geq$  512Kbps,** (iii). **Table 4.8: Upload User Data Throughput in 4G/LTE Technology Locked Mode [Fixed Duration]  $\geq$  512Kbps & (iv). Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration]  $\geq$  64Kbps.**

<b>UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)</b>								
<b>City</b>	<b>Automode Throughput [Kbps]</b>				<b>Operator Position</b>			
	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>
<i>Attock</i>	18681.4	6550.38	21332.57	17390.48	Second	Fourth	First	Third
<i>Hafizabad</i>	15931.56	4114.74	17867.28	21280.89	Third	Fourth	Second	First
<i>Rawalpindi</i>	18242.43	7080.04	17693.23	19484.96	Second	Fourth	Third	First
<i>Hyderabad</i>	19770.05	6705.88	19144.34	22657.11	Second	Fourth	Third	First
<i>Karachi East</i>	24533.27	7413.88	23835.34	23545.16	First	Fourth	Second	Third
<i>Pakpattan</i>	20157.72	6022.37	20918.29	21940.6	Third	Fourth	Second	First
<i>Khanpur</i>	16010.83	3910.02	21426.82	19114.83	Third	Fourth	First	Second
<i>Lodhran</i>	15828.19	3164.41	2642.72	16035.03	Second	Third	Fourth	First
<i>Wazirabad</i>	23128.26	7243.53	26927.81	24956.32	Third	Fourth	First	Second

**Table 4.6: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] ≥ 512Kbps**

<b>UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)</b>								
<b>City</b>	<b>Auto mode Throughput [Kbps]</b>				<b>Operator Position</b>			
	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>
<i>Attock</i>	13157.41	11358.81	16858.45	15273.11	Third	Fourth	First	Second
<i>Hafizabad</i>	12864.18	9134.07	13447.81	12204.07	Second	Fourth	First	Third
<i>Rawalpindi</i>	14348.58	11036.09	13954.39	16244.83	Second	Fourth	Third	First
<i>Hyderabad</i>	10297.19	11918.57	15964.71	14653	Fourth	Third	First	Second
<i>Karachi East</i>	9850.67	5939.53	9768.73	8845.32	First	Fourth	Second	Third
<i>Pakpattan</i>	13249.11	10563.21	17890.04	16822.68	Third	Fourth	First	Second
<i>Khanpur</i>	13179.07	9004.47	17306.99	14748.16	Third	Fourth	First	Second
<i>Lodhran</i>	12458.87	8555.51	4766.04	10756.71	First	Third	Fourth	Second
<i>Wazirabad</i>	15044.95	11215.83	14808.64	14349.81	First	Fourth	Second	Third

**Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] ≥ 512Kbps**

<b>UPLOAD USER DATA THROUGHPUT IN 4G TECHNOLOGY LOCKED MODE (FIXED DURATION)</b>								
<b>City</b>	<b>Auto mode Throughput [Kbps]</b>				<b>Operator Position</b>			
	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>
<i>Attock</i>	19522.9	4990.77	20817.14	17494.09	Second	Fourth	First	Third
<i>Hafizabad</i>	17176.81	3765.95	20466.42	22540.34	Third	Fourth	Second	First
<i>Rawalpindi</i>	17097.68	6274.1	18186.68	18546.47	Third	Fourth	Second	First
<i>Hyderabad</i>	20377.2	6776.42	19671.8	22597.74	Second	Fourth	Third	First
<i>Karachi East</i>	<b>N/A</b>				<b>N/A</b>			
<i>Pakpattan</i>	18769.39	5528.99	19285.91	18925.83	Third	Fourth	First	Second
<i>Khanpur</i>	15418.48	3551.11	19207.88	16992.99	Third	Fourth	First	Second
<i>Lodhran</i>	20057.11	3392.23	<b>11.43</b>	16073.45	First	<b>Third</b>	Fourth	Second
<i>Wazirabad</i>	17110.54	5861.4	24210.63	20364.96	Third	Fourth	First	Second

**Table 4.8: Upload User Data Throughput Technology Locked Mode [Fixed Duration] ≥ 512Kbps**

<b>UPLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)</b>								
<b>City</b>	<b>Auto mode Throughput [Kbps]</b>				<b>Operator Position</b>			
	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>	<b>Jazz</b>	<b>Telenor</b>	<b>Ufone</b>	<b>ZonG</b>
<i>Attock</i>	1273.94	1520.25	1735.54	600.11	Third	Second	First	Fourth
<i>Hafizabad</i>	375.65	1150.07	2886.45	1572.91	Fourth	Third	First	Second
<i>Rawalpindi</i>	1365.88	1256.67	1914.83	863.49	Second	Third	First	Fourth
<i>Hyderabad</i>	654.74	<b>N/A</b>	1668.77	<b>N/A</b>	Second	<b>N/A</b>	First	<b>N/A</b>
<i>Karachi East</i>	<b>N/A</b>				<b>N/A</b>			
<i>Pakpattan</i>	1332.88	1522.54	4363.72	1592.64	Fourth	Third	First	Second
<i>Khanpur</i>	1225.32	1448.2	2479.74	1307.45	Fourth	Second	First	Third
<i>Lodhran</i>	1418.56	2195.33	2455.8	1495.07	Fourth	Second	First	Third
<i>Wazirabad</i>	314.45	1452.9	3025.82	1886.9	Fourth	Third	First	Second

**Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration] ≥ 64Kbps**