

<b>DOWNLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)</b>								
<b>Road</b>	<b>Download 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>Lahore to Multan</i>	10.43	6.39	8.96	9.60	First	Fourth	Third	Second
<i>Islamabad to Kohat</i>	13.41	5.05	8.36	9.65	First	Fourth	Third	Second
<i>Mianwali to Bakhar</i>	12.36	6.68	7.86	13.22	Second	Fourth	Third	First
<i>Isamabad to D.I Khan</i>	11.92	5.14	8.23	10.17	First	Fourth	Third	Second
<i>T.M Panah to Jalalpur Pirwala</i>	8.24	4.00	8.14	11.78	Second	Fourth	Third	First
<i>Kot Sabzal to Multan</i>	12.54	5.88	6.48	12.10	First	Fourth	Third	Second
<i>Chakdara to Kalam</i>	11.72	7.02	9.22	13.92	Second	Fourth	Third	First
<i>Khuazakhela to Behsam</i>	12.84	3.64	10.45	12.89	Second	Fourth	Third	First
<i>Peshawer to DG Khan</i>	10.31	5.05	11.92	14.85	Third	Fourth	Second	First

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

<b>DOWNLOAD USER DATA THROUGHPUT IN 4G/LTE TECHNOLOGY LOCKED MODE (FIXED DURATION)</b>								
<b>Road</b>	<b>Download 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>Zhob to Quetta</i>	10.99	6.68	8.38	7.16	First	Fourth	Second	Third
<i>Lahore to Sargodha</i>	15.10	3.09	15.32	17.38	Third	Fourth	Second	First
<i>Lahore to Rawalpindi</i>	15.50	3.25	9.44	18.97	Second	Fourth	Third	First
<i>Lahore to Multan</i>	13.38	6.01	13.35	14.59	Second	Fourth	Third	First
<i>Islamabad to Kohat</i>	20.93	3.33	5.85	12.40	First	Fourth	Third	Second
<i>Mianwali to Bakhar</i>	4.09	<b>2.15</b>	<b>2.41</b>	5.53	Second	Fourth	Fourth	First
<i>Isamabad to D.I Khan</i>	7.80	<b>1.73</b>	3.57	5.48	First	Fourth	Fourth	Second
<i>T.M Panah to Jalalpur Pirwala</i>	15.06	3.56	12.93	17.99	Second	Fourth	Third	First
<i>Kot Sabzal to Multan</i>	23.11	5.79	16.11	18.16	First	Fourth	Third	Second
<i>Chakdara to Kalam</i>	21.41	<b>1.82</b>	17.64	25.99	Second	Fourth	Third	First
<i>Khuazakhela to Behsam</i>	<b>0.65</b>	<b>1.76</b>	17.12	13.84	Fourth	Fourth	First	Second
<i>Peshawer to DG Khan</i>	22.32	3.59	6.30	22.58	Second	Fourth	Third	First

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

<b>DOWNLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)</b>								
<b>Road</b>	<b>Download 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>Quetta to Zhob</i>	3310.09	4286.82	4032.73	2410.64	Third	First	Second	Fourth
<i>Lahore to Sargodha</i>	3109.03	2239.95	3814.86	1973.73	Second	Third	First	Fourth
<i>Lahore to Rawalpindi</i>	2208.67	1811.03	3327.1	2389.37	Third	Fourth	First	Second
<i>Lahore to Multan</i>	2510.27	2388.08	2496.11	1689.42	First	Third	Second	Fourth
<i>Islamabad to Kohat</i>	3416.89	1884.31	2135.95	1955.74	First	Fourth	Second	Third
<i>Mianwali to Bakhar</i>	2093.44	2138.59	1721.02	1854.36	Second	First	Fourth	Third
<i>Isamabad to D.I Khan</i>	2166.22	1313.63	2360.81	1475.1	Second	Fourth	First	Third
<i>T.M Panah to Jalalpur Pirwala</i>	3290.86	2219.17	1482.73	1876.5	First	Second	Fourth	Third
<i>Kot Sabzal to Multan</i>	2945.38	4460.73	2350.35	2852.61	Second	First	Fourth	Third
<i>Chakdara to Kalam</i>	2945.38	4460.73	2350.35	2852.61	Second	First	Fourth	Third
<i>Khuazakhela to Behsam</i>	4138.82	1307.93	2418.62	2297.68	First	Fourth	Second	Third
<i>Peshawer to DG Khan</i>	1823.3	1517.58	1911.81	2037.49	Third	Fourth	Second	First

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

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 768 Kbps of 4G/LTE & 128 Kbps 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]  $\geq 768$  Kbps,** (ii). **Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size]  $\geq 768$  Kbps,** (iii). **Table 4.8: Upload User Data Throughput in 4G/LTE Technology Locked**

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

<b>UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)</b>								
<b>Road</b>	<b>Upload 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>Quetta to Zhob</i>	16071.85	4620.93	17662.64	16913.76	Third	Fourth	First	Second
<i>Zhob to Quetta</i>	14445.73	5203.71	13526.88	16978.23	Second	Fourth	Third	First
<i>Lahore to Sargodha</i>	21187.7	6575.18	18402.93	14811.03	First	Fourth	Second	Third
<i>Lahore to Rawalpindi</i>	18033.43	6342.89	19589.29	21727.77	Third	Fourth	Second	First
<i>Lahore to Multan</i>	17483.04	6013.29	14095.94	15426.7	First	Fourth	Third	Second
<i>Islamabad to Kohat</i>	17803.1	7840.56	17885.7	15142.61	Second	Fourth	First	Third
<i>Mianwali to Bakhar</i>	15141.84	5827.45	12654.66	10180.92	First	Fourth	Second	Third
<i>Isamabad to D.I Khan</i>	17002.48	5702.02	12255.25	8878.16	First	Fourth	Second	Third
<i>T.M Panah to Jalalpur Pirwala</i>	17775.52	3989.82	11920.74	14897.28	First	Fourth	Third	Second
<i>Kot Sabzal to Multan</i>	21654.26	7437.34	12740.01	18210.53	First	Fourth	Third	Second
<i>Chakdara to Kalam</i>	18683.35	4234.95	17807.99	16642	First	Fourth	Second	Third
<i>Khuazakhela to Behsam</i>	6975.27	6775.59	15370.44	17500.71	Third	Fourth	Second	First
<i>Peshawer to DG Khan</i>	18349.59	7774.97	11452.81	16387.45	First	Fourth	Third	Second

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

<b>UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)</b>								
<b>Road</b>	<b>Upload 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>Quetta to Zhob</i>	6192.3	4866.38	8297.9	7990.55	Third	Fourth	First	Second
<i>Zhob to Quetta</i>	5735.17	4672.48	4846.81	6611.92	Second	Fourth	Third	First
<i>Lahore to Sargodha</i>	7284.31	5435.75	8569.24	7638.65	Third	Fourth	First	Second
<i>Lahore to Rawalpindi</i>	5842.5	5562.8	7480.29	7910.14	Third	Fourth	Second	First
<i>Lahore to Multan</i>	6025.81	5177.9	5219.32	7250.36	Second	Fourth	Third	First
<i>Islamabad to Kohat</i>	6487.43	5883.52	7538.79	6746.31	Third	Fourth	First	Second
<i>Mianwali to Bakhar</i>	6502.4	5725.2	6815.23	6831.79	Third	Fourth	Second	First
<i>Isamabad to D.I Khan</i>	6772.27	5468.01	7257.92	7667.31	Third	Fourth	Second	First
<i>T.M Panah to J. Pirwala</i>	10779.64	9131.75	11876.7	11559.4	Third	Fourth	First	Second
<i>Kot Sabzal to Multan</i>	12354.28	10908.75	11046.4	14280.9	Second	Fourth	Third	First
<i>Chakdara to Kalam</i>	12192.52	9539.01	16882.8	13549.4	Third	Fourth	First	Second
<i>Khuazakhela to Behsam</i>	10621.75	10256.71	16878.4	13814.4	Third	Fourth	First	Second
<i>Peshawer to DG Khan</i>	12252.51	10169.19	12301.7	13733.1	Third	Fourth	Second	First

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

<b>UPLOAD USER DATA THROUGHPUT IN 4G TECHNOLOGY LOCKED MODE (FIXED DURATION)</b>								
<b>Road</b>	<b>Upload 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>Zhob to Quetta</i>	7942.43	4365.81	11787.94	14687.9	Third	Fourth	Second	First
<i>Lahore to Sargodha</i>	20419.17	5123.96	17036.05	9342.6	First	Fourth	Second	Third
<i>Lahore to Rawalpindi</i>	19569.5	5166.58	17938.07	14213.99	First	Fourth	Second	Third
<i>Lahore to Multan</i>	16635.89	5101.13	10309.4	8981.37	First	Fourth	Second	Third
<i>Islamabad to Kohat</i>	13382.39	7183.49	18471.69	13544.29	Third	Fourth	First	Second
<i>Mianwali to Bakhar</i>	8658.84	3307.68	10163.53	5274.95	Second	Fourth	First	Third
<i>Isamabad to D.I Khan</i>	14837.24	5260.72	11068.11	8835.63	First	Fourth	Second	Third
<i>T.M Panah to J. Pirwala</i>	13494.83	2348.09	10761.36	7004.57	First	Fourth	Second	Third
<i>Kot Sabzal to Multan</i>	19497.48	5972.93	9416.83	7929.4	First	Fourth	Second	Third
<i>Chakdara to Kalam</i>	14040.69	3438	16406.1	13690.82	Second	Fourth	First	Third
<i>Khuazakhela to Behsam</i>	8836.05	3128.51	11945.95	23244.33	Third	Fourth	Second	First
<i>Peshawer to DG Khan</i>	17372.47	5900.3	9532.04	7745.57	First	Fourth	Second	Third