DOWNLOAD USER DATA THROUGHPUT IN 4G/LTE TECHNOLOGY LOCKED MODE (FIXED DURATION)								
Road	User Data Throughput [Mbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Rawalpindi To Turkham	7.51	2.52	6.10	12.40	Second	Fourth	Third	First

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

DOWNLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)								
Road	User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Hazara Motorway	1955.9	1478.29	2348.89	1393.01	Second	Third	First	Fourth
Haripur To Taxila	697.27	1385.09	2399.72	**131.66**	Third	Second	First	**Fourth**
Pindi Bhatian To Multan	1647.03	1904.81	2680.02	918.04	Third	Second	First	Fourth
Multan to Sukkur	1643.6	3147.14	1587.1	646.08	Second	First	Third	Fourth
Nowshera To Chitral	1180.13	1417.41	1677.85	1907.97	Fourth	Third	Second	First
Swabi To Katlang	1938.08	1339.16	1252.98	622.78	First	Second	Third	Fourth
Islamabad To Kohala	3422.54	2336.79	2627.78	2007.15	First	Third	Second	Fourth
Islamabad To Peshawar	2976.32	1305.6	3068.88	1434.13	Second	Fourth	First	Third
Lahore to Abdul Hakeem	2121.33	1535.92	2092.59	989.21	First	Third	Second	Fourth
Lahore to Islamabad	2739.34	2975.32	4634.16	2048.26	Third	Second	First	Fourth
Lahore To Sialkot	2157.72	928.77	1924.17	818.9	First	Third	Second	Fourth
Rawalpindi To Turkham	2253.39	1546.59	2377.6	1472.11	Second	Third	First	Fourth

Table 4.5: Download User Data Throughput IN 3G Technology Locked Mode [Fixed Duration] ≥ 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] ≥ 512Kbps,** (ii). **Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] ≥ 512Kbps,** (iii). **Table 4.8: Upload User Data Throughput in 4G/LTE Technology Locked Mode [Fixed Duration] ≥ 512Kbps** & (iv). **Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration] ≥ 64Kbps.**

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)								
Road	Auto mode Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Hazara Motorway	14587.87	5416.84	15077.61	13642.47	Second	Fourth	First	Third
Quetta To Karachi	8491.89	3801.03	10367.01	11640.69	Third	Fourth	Second	First
Haripur To Taxila	11230.98	3653.45	17372	10498.46	Second	Fourth	First	Third
Pindi Bhatian To Multan	18223.57	4808.59	15714.5	18452.18	Second	Fourth	Third	First
Multan to Sukkur	13614.95	4384.23	11527.43	16233.88	Second	Fourth	Third	First
Nowshera To Chitral	15235.01	5250.9	10240.83	14477.26	First	Fourth	Third	Second
Swabi To Katlang	10775.42	5762.55	2093.47	9508.54	First	Third	Fourth	Second
Islamabad To Kohala	15324.11	5745.56	11357.11	13673.78	First	Fourth	Third	Second
Islamabad To Peshawar	19723.39	5862.22	22065.95	13875.12	Second	Fourth	First	Third
Lahore to Abdul Hakeem	18904.1	5752.4	2110.75	21756.6	Second	Third	Fourth	First
Lahore to Islamabad	17620.53	5773.94	19572.67	17343.71	Second	Fourth	First	Third
Lahore To Sialkot	18184.6	5559.8	2451.13	20152.1	Second	Third	Fourth	First
Rawalpindi To Turkham	17573.25	7585.72	10333.83	15882.4	First	Fourth	Third	Second

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

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)								
Road	Auto mode Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Hazara Motorway	11277.13	11955.54	15793.16	11945.39	Fourth	Second	First	Third
Quetta To Karachi	11897	9124.49	14158.15	13133.52	Third	Fourth	First	Second
Haripur To Taxila	10855.47	11574.86	17626.95	15376.93	Fourth	Third	First	Second
Pindi Bhatian To Multan	12467.58	9391.43	13408.3	13347.91	Third	Fourth	First	Second
Multan to Sukkur	12626.25	9222.23	14443.06	12854.12	Third	Fourth	First	Second
Nowshera To Chitral	9660.75	9990.72	11110.27	12326.74	Fourth	Third	Second	First
Swabi To Katlang	9542.08	10843.03	5504.21	11129.15	Third	Second	Fourth	First
Islamabad To Kohala	14695.38	12393.14	14181.18	16116.53	Second	Fourth	Third	First
Islamabad To Peshawar	13681.64	11928.61	17152.59	11595.09	Second	Third	First	Fourth
Lahore to Abdul Hakeem	13808.88	10344.5	5774.5	14285.05	Second	Third	Fourth	First
Lahore to Islamabad	12067.95	9920.51	15794.79	14636.3	Third	Fourth	First	Second
Lahore To Sialkot	13667.47	10953.91	5657.78	15119.6	Second	Third	Fourth	First
Rawalpindi To Turkham	9729.05	11804.16	17091.28	12090.92	Fourth	Third	First	Second

Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] $\geq$ 512Kbps

UPLOAD USER DATA THROUGHPUT IN 4G TECHNOLOGY LOCKED MODE (FIXED DURATION)								
Road	Auto mode Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Hazara Motorway	10258.97	4061.56	13169.52	7597.3	Second	Fourth	First	Third
Haripur To Taxila	9560.75	2167.31	11186.58	8702.39	Second	Fourth	First	Third
Pindi Bhatian To Multan	17150.97	3059.61	14390.69	16463.88	First	Fourth	Third	Second
Multan to Sukkur	12453.16	4392.83	11418.73	12532.56	Second	Fourth	Third	First
Nowshera To Chitral	13791.42	3139.82	9803.97	11155.9	First	Fourth	Third	Second
Swabi To Katlang	5518.89	5513.87	10016.8	11979.98	Third	Fourth	Second	First
Islamabad To Kohala	10518.23	3201.49	10200.91	8288.97	First	Fourth	Second	Third
Islamabad To Peshawar	14691.95	4740.2	18397.65	11038.42	Second	Fourth	First	Third
Lahore to Abdul Hakeem	17299.71	4319.14	18906.56	17310.84	Third	Fourth	First	Second
Lahore to Islamabad	17449.2	5216.95	17747.46	1844.93	Second	Third	First	Fourth
Lahore To Sialkot	12709.87	3988.12	23249.75	12846.39	Third	Fourth	First	Second
Rawalpindi To Turkham	16438.33	5939.69	4749.6	10311.89	First	Third	Fourth	Second

Table 4.8: Upload User Data Throughput in 4G Technology Locked Mode [Fixed Duration] $\geq$ 512Kbps

UPLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)								
Road	Auto mode Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Hazara Motorway	908.11	1097.57	1855.78	655.26	Third	Second	First	Second
Haripur To Taxila	469.16	1083.17	2333.1	455.95	Third	Second	First	Fourth
Pindi Bhatian To Multan	1296.13	1557.07	2686.8	1450.44	Fourth	Second	First	Third
Multan to Sukkur	1137.81	1940.33	1040.37	1412.12	Third	First	Fourth	Second
Nowshera To Chitral	664.38	1127.39	1998.98	1788.13	Fourth	Third	First	Second
Swabi To Katlang	1004.01	1349.04	1502.95	1817.04	Fourth	Third	Second	First
Islamabad To Kohala	1426.44	1327.28	2237.87	712.11	Second	Third	First	Fourth
Islamabad To Peshawar	956.43	1146.28	2443.47	1128.38	Fourth	Second	First	Third