DOWNLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)									
C'L-	Download User Data Throughput [Mbps]				Operator Position				
City	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
SUJAWAL	35.88	3.75	27.37	29.90	First	Fourth	Third	Second	
MITHI	30.56	4.11	11.33	36.56	Second	Fourth	Third	First	
ABBOTTABAD	21.49	4.03	7.54	20.56	First	Fourth	Third	Second	
SHUJABAD	18.03	8.66	2.02	30.38	Second	Third	Fourth	First	
SWABI	23.63	2.02	5.39	14.21	First	Fourth	Third	Second	
MURIDKE	20.61	10.40	13.45	24.98	Second	Fourth	Third	First	

Table4.2: Download User Data Throughput Technology Auto Detect Mode [Fixed Duration] ≥ 3Mbps

DOWNLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)									
City	Downlo	ad User Data T	hroughput [Mbps]	Operator Position				
City	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
UPPER DIR	7.00	4.50	10.29	9.07	Third	Fourth	First	Second	
LARKANA	11.83	5.52	6.05	11.28	First	Fourth	Third	Second	
LAHORE	10.40	7.47	10.28	14.39	Second	Fourth	Third	First	
KHAIRPUR	9.14	8.73	6.62	11.90	Second	Third	Fourth	First	
KAHROR PACCA	10.70	9.19	5.73	13.00	Second	Third	Fourth	First	
SHAHKOT	12.78	6.46	11.27	10.13	First	Fourth	Second	Third	
GUJAR KHAN	13.40	3.83	7.58	12.08	First	Fourth	Third	Second	
WAH/ TAXILA	11.13	3.51	8.73	10.76	First	Fourth	Third	Second	
RAWALPINDI	13.17	4.89	7.60	11.45	First	Fourth	Third	Second	
BUNER	11.67	3.25	4.70	8.43	First	Fourth	Third	Second	
JACOBABAD	13.22	7.57	7.64	11.59	First	Fourth	Third	Second	
SUJAWAL	15.45	3.45	14.53	13.85	First	Fourth	Second	Third	
MITHI	13.57	5.30	8.31	10.95	First	Fourth	Third	Second	
ABBOTTABAD	10.9	4.9	6.7	10.5	First	Fourth	Third	Second	
SHUJABAD	10.8	7.0	3.4	14.9	Second	Third	Fourth	First	
SWABI	11.6	3.6	5.4	8.5	First	Fourth	Third	Second	
MURIDKE	10.5	7.3	8.9	12.4	Second	Fourth	Third	First	

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

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 4.4: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] ≥ 768Kbps, (ii). Table 4.5: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] ≥ 768Kbps,

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)									
Ci	Upload User Data Throughput [Kbps]				Operator Position				
City	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
UPPER DIR	9507.45	3170.27	17244.33	13612.93	Third	Fourth	First	Second	
LARKANA	24512.48	4702.53	20062.1	23229.12	First	Fourth	Third	Second	
LAHORE	23461.84	8847.7	20101.42	22446.8	First	Fourth	Third	Second	
KHAIRPUR	24993.93	6974.67	17714.76	23106.16	First	Fourth	Third	Second	
KAHROR PACCA	30147.08	5254.37	12927.14	19185.98	First	Fourth	Third	Second	
SHAHKOT	28517.78	4735.65	19663.35	24699.69	First	Fourth	Third	Second	
GUJAR KHAN	29127.13	6331.51	20642.18	18486.91	First	Fourth	Second	Third	
WAH/ TAXILA	20938.3	6911.5	21533.72	18357.29	Second	Fourth	First	Third	
RAWALPINDI	23112.06	6676.87	18659.59	19165.98	First	Fourth	Third	Second	

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED DURATION)									
Cit	Upload User Data Throughput [Kbps]				Operator Position				
City	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG	
BUNER	12076.96	6402.05	11474.17	14910.37	Second	Fourth	Third	First	
JACOBABAD	21392.15	5395.46	20752.6	24100.5	Second	Fourth	Third	First	
SUJAWAL	30264.2	8667.95	24412.42	26721.56	First	Fourth	Third	Second	
MITHI	27408.96	5363.88	21042.25	14055.58	First	Fourth	Second	Third	
ABBOTTABAD	24644.38	5952.18	16826.93	16966.41	First	Fourth	Third	Second	
SHUJABAD	18676.77	4130.71	10026.45	20404.5	Second	Fourth	Third	First	
SWABI	16598.01	4779.99	15172.14	17896.14	Second	Fourth	Third	First	
MURIDKE	27363.76	8960.83	19725.39	23908.06	First	Fourth	Third	Second	

Table 4.4: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] ≥ 768Kbps

UPLOAD USER DATA THROUGHPUT IN TECHNOLOGY AUTO DETECT MODE (FIXED SIZE)										
City	Upload	User Data '	Chroughpu	t [Kbps]	Operator Position					
City	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG		
UPPER DIR	4927.35	3068.89	5575.65	5381.32	Third	Fourth	First	Second		
LARKANA	6606.51	4256.48	7313.52	6148.18	Second	Fourth	First	Third		
LAHORE	7698.76	5448.96	7130.36	6750.15	First	Fourth	Second	Third		
KHAIRPUR	6051.87	5106.27	6749.1	6724.66	Third	Fourth	First	Second		
KAHROR PACCA	7344.14	3887.46	5608.74	5704.35	First	Fourth	Third	Second		
SHAHKOT	8255.79	3669.27	7264.38	7217.23	First	Fourth	Second	Third		
GUJAR KHAN	8416.55	4617.48	7797.97	6288.04	First	Fourth	Second	Third		
WAH/ TAXILA	6595.94	4806.2	6713.08	7549.82	Third	Fourth	Second	First		
RAWALPINDI	7460.44	4827.62	7021.3	8039.07	Second	Fourth	Third	First		
BUNER	6027.38	4254.6	5553.95	5629.37	First	Fourth	Third	Second		
JACOBABAD	6513.63	3991.51	6460.68	6941.84	Second	Fourth	Third	First		
SUJAWAL	8739.95	5786.09	7771.44	7785.5	First	Fourth	Third	Second		
MITHI	7910.93	3836.52	7066.35	5297.96	First	Fourth	Second	Third		
ABBOTTABAD	6948.94	4392.97	6117.5	7318.75	Second	Fourth	Third	First		
SHUJABAD	6214.58	3394.36	5405.01	5699.26	First	Fourth	Third	Second		
SWABI	5912.57	3846.93	5942.12	6338.53	Third	Fourth	Second	First		
MURIDKE	6260.61	5286.31	6539.18	6778.73	Third	Fourth	Second	First		

Table 4.5: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] ≥ 768Kbps

4.4. **WEBPAGE LOADING TIME.** As per Cellular Mobile Network Quality of Service (QoS) Regulations 2021, licensees are required to meet <u>Webpage Loading Time threshold of 5 Seconds.</u> The results of Webpage Loading Time are shown in **Table 4.6: Webpage Loading Time < 5 Seconds.**

WEBPAGE LOADING TIME IN IN TECHNOLOGY AUTO DETECT MODE										
C:L-	Webpage Loading Time [seconds]					Compliant (Yes/No)				
City	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG		
UPPER DIR	3.60	3.59	3.78	3.05	Yes	Yes	Yes	Yes		
LARKANA	2.42	2.98	3.37	2.82	Yes	Yes	Yes	Yes		
LAHORE	2.84	2.72	3.02	2.41	Yes	Yes	Yes	Yes		
KHAIRPUR	2.50	2.70	3.20	2.70	Yes	Yes	Yes	Yes		
KAHROR PACCA	2.57	3.58	3.73	2.61	Yes	Yes	Yes	Yes		
SHAHKOT	2.41	3.01	2.31	2.17	Yes	Yes	Yes	Yes		
GUJAR KHAN	3.12	3.03	3.28	2.92	Yes	Yes	Yes	Yes		