

City	4G User Data Throughput (Mbps)				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Jacobabad	16.50	3.24	3.10	14.97	First	Third	Fourth	Second
Dadu	8.57	2.37	19.73	12.75	Third	Fourth	First	Second
Tando Allah Yar	13.84	4.21	9.92	10.78	First	Fourth	Third	Second
Sialkot	9.16	3.84	18.31	15.23	Third	Fourth	First	Second
Gwadar	3.86	2.35	2.09	7.32	Second	Third	Fourth	First
D.I Khan	12.27	2.04	7.90	16.80	Second	Fourth	Third	First

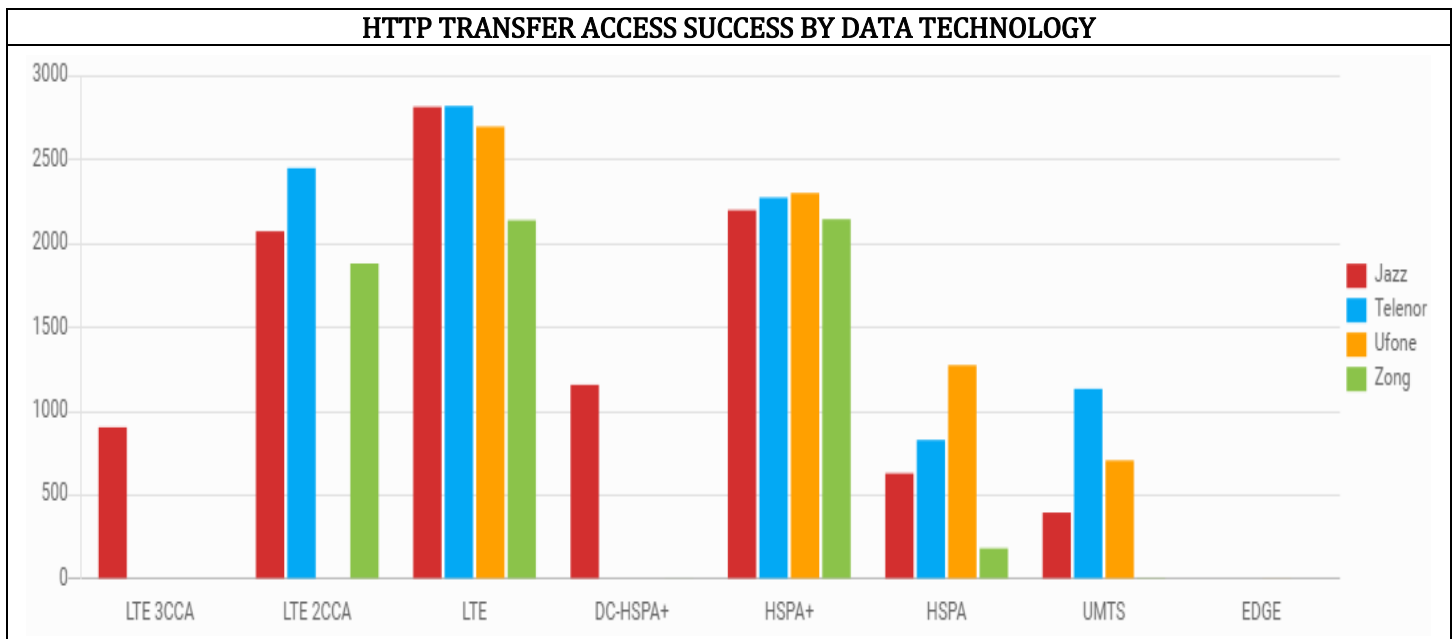
Table4.2.1: 4G User Data Throughput in Pakistan  $\geq 2$  Mbps

4.3. **3G USER DATA THROUGHPUT.** As per Next Generation Mobile Service (NGMS) licenses awarded, licensees are required to meet **the threshold of minimum of 256Kbps of 3G User Data Throughput**. The results of Data Service QoS KPI i.e. User Data Throughput is shown in **Table 4.3: 3G User Data Throughput in Pakistan  $\geq 256$ Kbps**.

City	3G User Data Throughput (Kbps)				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
Khanpur	3069.50	3810.87	3566.99	1944.04	Third	Second	First	Fourth
Sadiqabad	3213.56	4789.25	3656.23	2046.48	Third	First	Second	Fourth
Kharian	1677.81	1836.83	3685.05	2031.25	Fourth	Third	First	Second
Wazirabad	1249.90	2083.82	5159.92	2332.42	Fourth	Third	First	Second
Kotri	1298.83	2923.11	5706.80	1376.28	Fourth	Second	First	Third
Jacobabad	4119.01	2539.55	2225.21	1057.98	First	Second	Third	Fourth
Dadu	3074.27	2285.97	3856.25	1196.27	Second	Third	First	Fourth
Tando Allah Yar	1054.34	2686.46	2817.79	961.31	Third	Second	First	Fourth
Sialkot	2098.40	2677.96	3386.38	1879.95	Third	Second	First	Fourth
Gwadar	2527.18	3871.15	2756.26	763.26	Third	First	Second	Fourth
D.I Khan	2054.03	939.90	2638.49	2127.99	Third	Fourth	First	Second

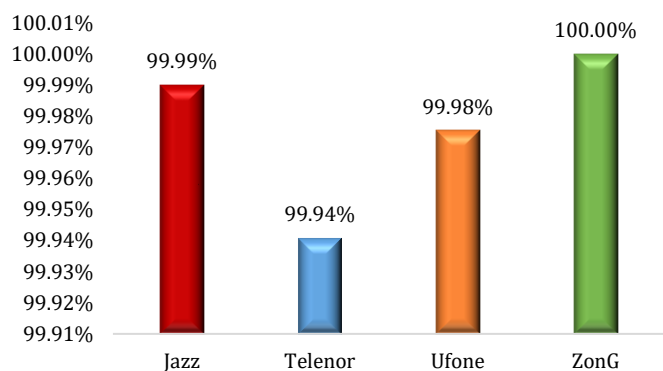
Table4.3: 3G User Data Throughput  $\geq 256$ Kbps

4.4. During the survey, the deployed technologies by Cellular Mobile Operators (CMOs), Success Rate of http Transfer Download Tests and Resource Block Utilization have been recorded. The details can be seen in attached graphs.

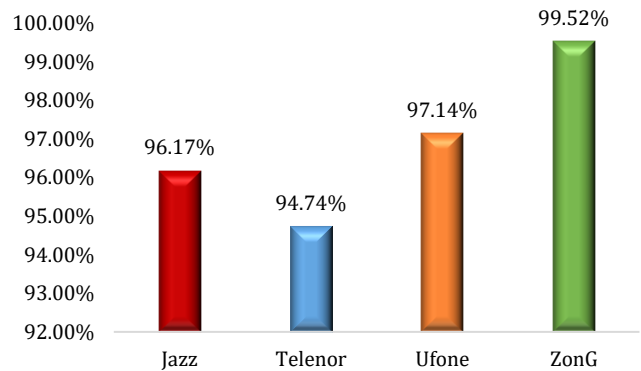


## QUALITY OF SERVICE SURVEY RESULTS – WAZIRABAD

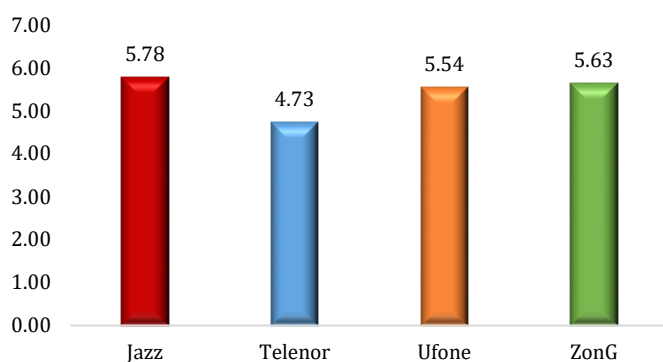
**Network Accessibility > 99%**



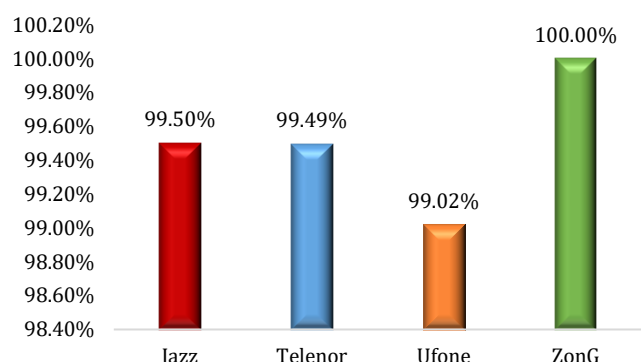
**Call Setup Success Rate > 98%**



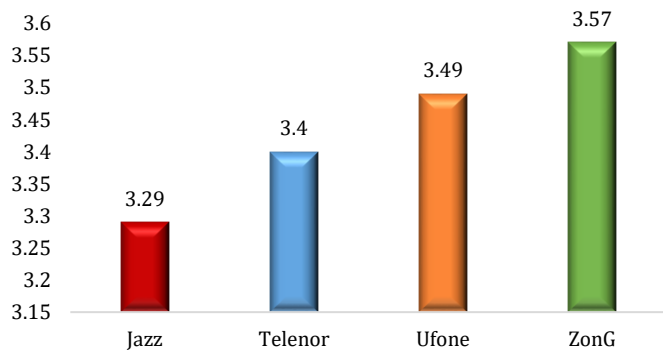
**Call Connection Time < 7.5 Seconds**



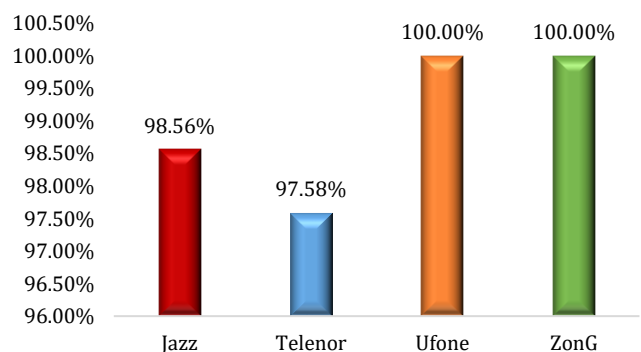
**Call Completion Ratio > 98%**



**Mean Opinion Score > 3**



**SMS Success Rate > 99%**



**SMS End-to-End Delivery Time < 12 Seconds**

