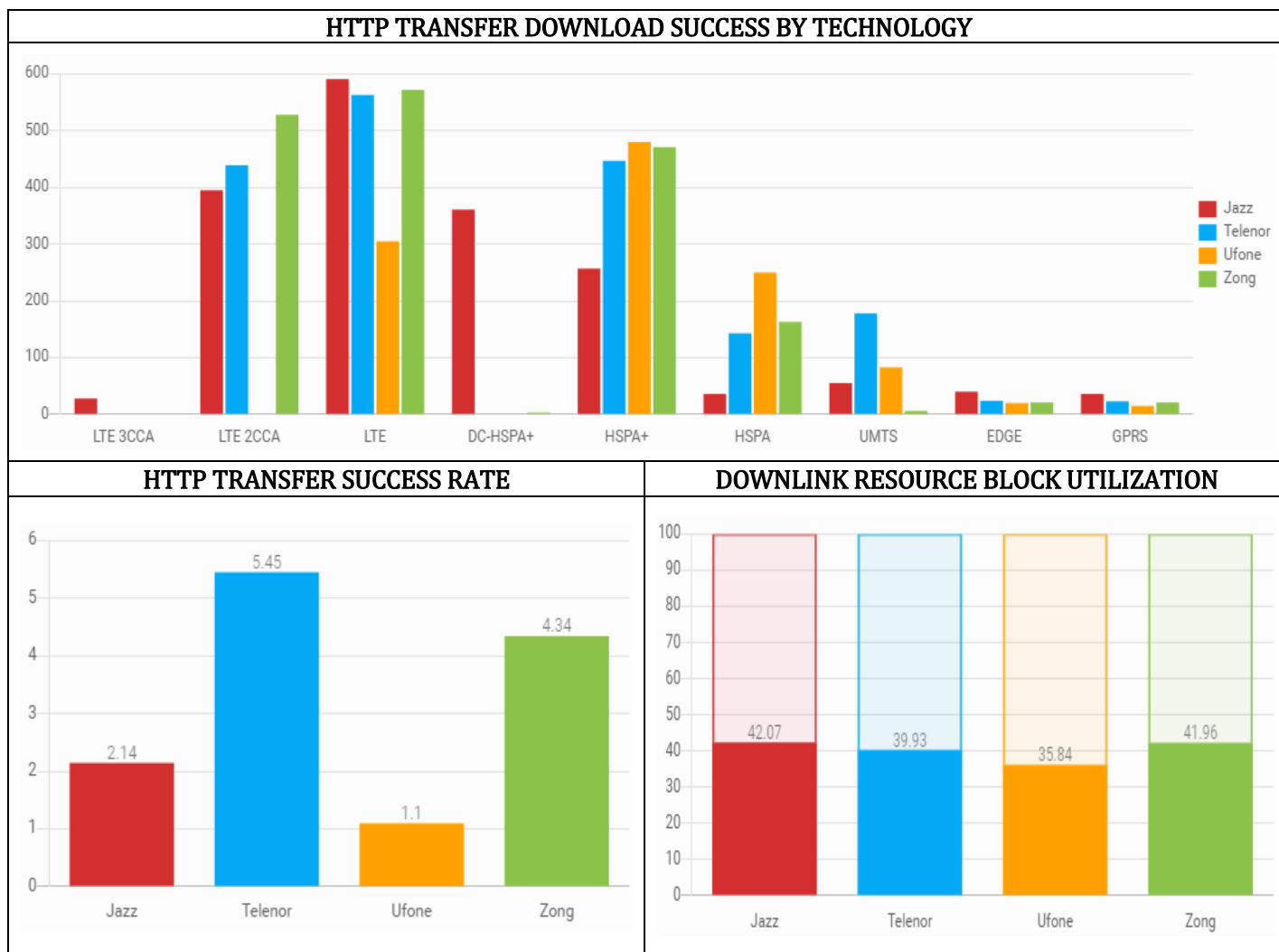


4.3. **3G USER DATA THROUGHPUT.** As per Next Generation Mobile Service (NGMS) licenses awarded, licensees are required to meet the threshold of minimum of 256Kbps of 3G User Data Throughput. The results of Data Service QoS KPI i.e. User Data Throughput on 8 x surveyed roads is shown in **Table4.2: 3G User Data Throughput  $\geq$  256 Kbps**.

| Road Name                  | User Data Throughput (Mbps) |         |         |         | Operator Position |         |        |        |
|----------------------------|-----------------------------|---------|---------|---------|-------------------|---------|--------|--------|
|                            | Jazz                        | Telenor | Ufone   | ZonG    | Jazz              | Telenor | Ufone  | ZonG   |
| Karachi to Kotri           | 1981.13                     | 2756.01 | 2184.63 | 705.58  | Third             | First   | Second | Fourth |
| Multan to Sadiqabad        | 2444.61                     | 3894.85 | 1767.03 | 945.42  | Second            | First   | Third  | Fourth |
| Lahore to Kharian          | 2635.73                     | 1630.93 | 4702.69 | 2197.61 | Second            | Fourth  | First  | Third  |
| Sukkur to Dadu             | 2749.16                     | 3103.98 | 1444.37 | 1425.42 | Second            | First   | Third  | Fourth |
| Sukkur to Jacobabad        | 3143.59                     | 3298.55 | 1487.58 | 1350.21 | Second            | First   | Third  | Fourth |
| M-14 Motorway              | 2033.62                     | 1727.25 | 2227.00 | 1286.35 | Second            | Third   | First  | Fourth |
| Rawalpindi to Bhimber      | 2680.37                     | 1254.91 | 1744.99 | 1042.25 | First             | Third   | Second | Fourth |
| Rawalpindi to Muzaffarabad | 2854.64                     | 2200.68 | 2864.53 | 902.91  | Second            | Third   | First  | Fourth |

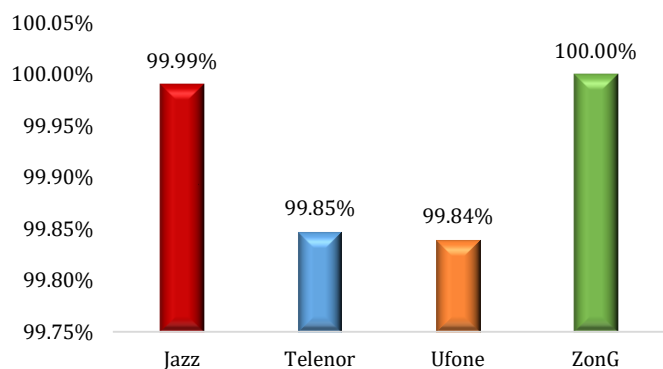
**Table4.2: 3G User Data Throughput  $\geq$  256 Kbps**

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

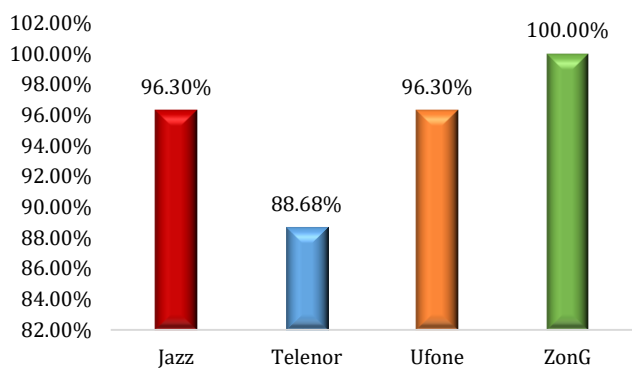


## QUALITY OF SERVICE SURVEY RESULTS – SUKKUR TO DADU

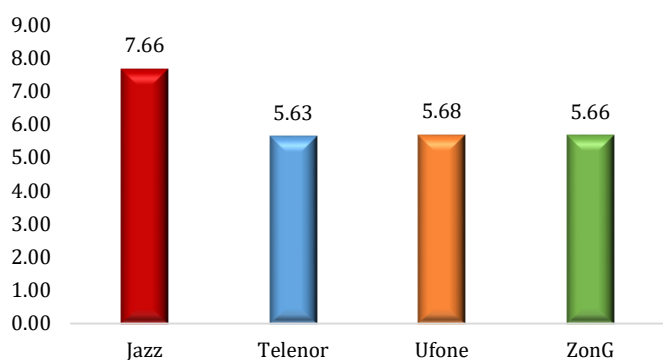
**Network Accessibility > 99%**



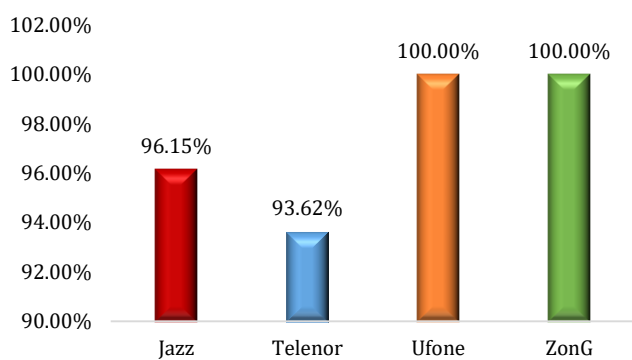
**Call Setup Success Rate > 98%**



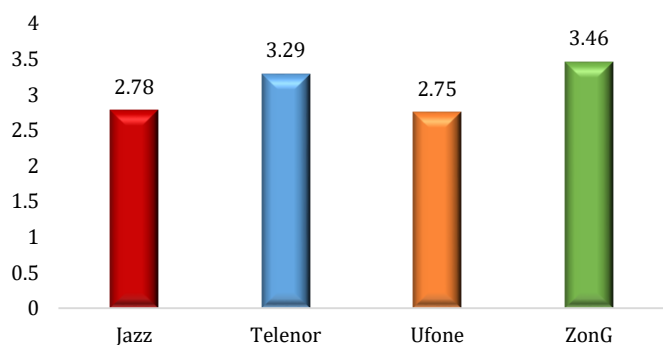
**Call Connection Time < 7.5 Seconds**



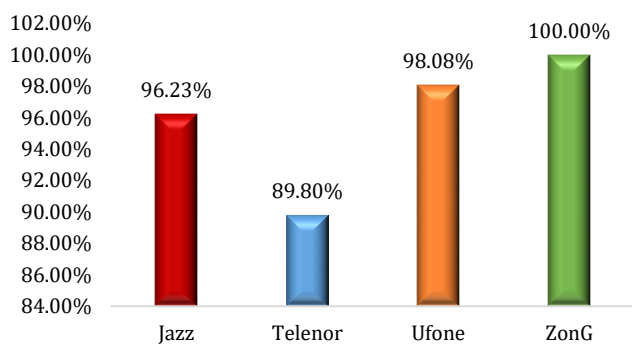
**Call Completion Ratio > 98%**



**Mean Opinion Score > 3**



**SMS Success Rate > 99%**



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

