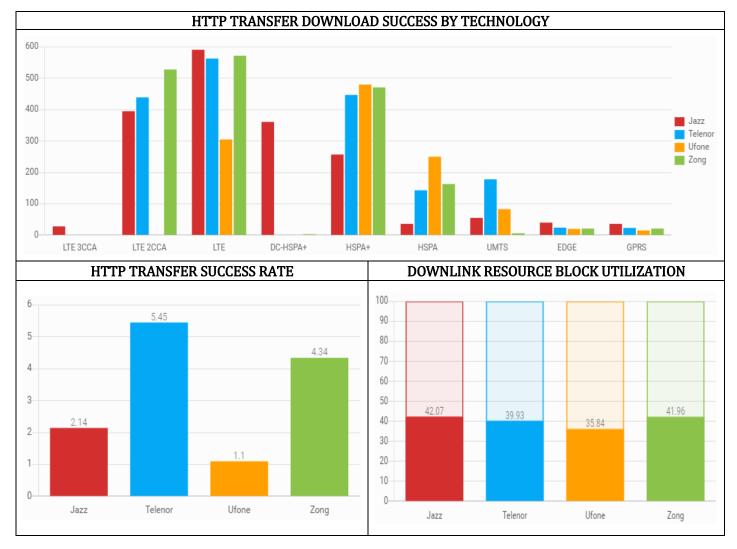
4.3. **3G USER DATA THROUGHPUT.** As per Next Generation Mobile Service (NGMS) licenses awarded, licensees are required to meet <u>the threshold of minimum of 256Kbps of 3G User Data Throughput.</u> The results of Data Service QoS KPI i.e. User Data Throughput on <u>8 x surveyed roads</u> is shown in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

Road Name	User Data Throughput (Mbps)				Operator Position			
Roau Name	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 ≥ 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 been seen in attached graphs.



VOICE CALLS ROADS – COMPLIANCE (YES/NO)										
Operator	*Voice KPIs	Karachi to	Multan to	Lahore to	Sukkur to	Sukkur to	M-14	Rawalpindi	Rawalpindi to	
operator		Kotri	Sadiqabad	Kharian	Dadu	Jacobabad	Motorway	to Bhimber	Muzaffarabad	
	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	SA	Yes	No	No	No	No	No	No	No	
	ССТ	Yes	No	Yes	Yes	No	Yes	Yes	No	
Jazz	CCR	Yes	No	Yes	No	Yes	No	Yes	No	
	MOS	Yes	No	Yes	No	No	No	No	No	
	ISHO	Yes	Yes	No	Yes	Yes	Yes	Yes	No	
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	NA	No	Yes	Yes	Yes	Yes	No	Yes	Yes	
	SA	No	No	No	No	No	No	No	No	
or _	ССТ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Telenor	CCR	No	No	Yes	No	Yes	No	No	No	
T _e	MOS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
	ISHO	N/A	Yes	N/A	Yes	N/A	Yes	No	N/A	
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	NA	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	
	SA	No	Yes	No	No	Yes	No	No	Yes	
0	ССТ	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	
Ufone	CCR	No	Yes	Yes	Yes	Yes	No	No	No	
n	MOS	Yes	No	Yes	No	Yes	No	Yes	No	
	ISHO	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	SA	Yes	Yes	No	Yes	Yes	No	No	No	
	CCT	Yes	Yes	Yes	Yes	Yes	No	Yes	No	
ZonG	CCR	Yes	Yes	Yes	Yes	Yes	No	No	No	
2	MOS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	ISHO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	RSSR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

^{*} Note Voice QoS KPIs: Network Accessibility (NA) > 99%, Service Accessibility (SA) > 98%, Call Connection Time (CCT) \leq 7.5 Seconds, Call Completion Ratio (CCR) \geq 98%, Mean Opinion Score (MOS) > 3, Inter System Hand Over (ISHO) > 98% & RAB Setup Success Rate (RSSR) > 98%