S. #.	Operator	Motorways / Highways / Inter Cities Roads		
		Count	ount Names	
			to Mirpur Khas, Karachi to Nawabshah, Sukkur to Nawabshah, Sukkur to Larkana	
4.	ZonG	16	GT Road Peshawar to Rawalpindi, Rawalpindi to Attock, Rawalpindi to Chakwal, Lahore to Mianwali, Lahore to Narowal, Lahore to Pattoki, Lahore to Multan, Multan to Abdul Hakeem, Multan to Bahawalpur, Multan to Kot Addu, Hyderabad to Badin, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Karachi to Sanghar, Sukkur to Nawabshah, Sukkur to Larkana	

Table 6.3: Compliance of SMS End-To-End Delivery Time ≤ 12 Seconds

ii. NON-COMPLIANCE. The Motorways / Highways / Inter Cities Roads where CMOs remained non-compliant is mentioned in Table 6.4: Non-Compliance of SMS End-To-End Delivery Time ≤ 12 Seconds.

S. #.	Operator	Motorways / Highways / Inter Cities Roads		
		Count	Names	
1.	Jazz	3	Lahore to Narowal, Lahore to Multan, Karachi to Sanghar	
2.	Telenor	7	GT Road Peshawar to Rawalpindi, Rawalpindi to Attock, Rawalpindi to Chakwal, Lahore to Mianwali, Lahore to Narowal, Multan to Bahawalpur, Multan to Kot Addu	
3.	Ufone	7	GT Road Peshawar to Rawalpindi, Rawalpindi to Chakwal, Lahore to Narowal, Lahore to Pattoki, Lahore to Multan, Hyderabad to Badin, Karachi to Sanghar	

Table 6.4: Non-Compliance of SMS End-To-End Delivery Time ≤ 12 Seconds

SURVEY MAPS & GRAPHICAL RESULTS

7.1 The 4G/LTE Signal Strength (RSRP) samples recorded during drive test on survey routes plotted on maps along-with Voice & SMS QoS KPIs survey results in graphical form are placed at **Annex-A**, **Annex-B** & **Annex-C** on Motorways / Highways and Inter-Cities Roads of Punjab, Sindh & Khyber Pakhtunkhwa respectively.

STANDING IN SURVEY

- 8.1. CMOs have been prioritized/ placed at 1^{st} , 2^{nd} , 3^{rd} & 4^{th} position in each category i.e. Mobile Network Coverage, Mobile Broadband Service, Voice Service and SMS Service, based upon the compliance level against each QoS KPI in each category in surveyed Motorways / Highways / Inter Cities Roads.
 - a. MOBILE NETWORK COVERAGE. The categorization of CMOs as per QoS KPI i.e. Signal Strength of 4G/LTE and 3G Networks on Surveyed Motorways / Highways and Inter Cities Roads is shown in Table 8.1: CMOs Standing in Mobile Network Coverage.

S. #.	Operator	Compliance Level – Nu Highways / Inte	Standing	
		Compliant	Non-Compliant	
1.	ZonG	28	4	1 st
2.	Jazz	22	10	2 nd
3.	Telenor	20	12	3rd
4.	Ufone	19	13	4 th

Table 8.1: CMOs Standing in Mobile Network Coverage

QUALITY OF SERVICE SURVEY RESULTS - RAWALPINDI TO CHAKWAL















