

S. #.	Operator	Towns	
		Count	Names
2.	Telenor	14	GT Road Peshawar to Rawalpindi, Rawalpindi to Attock, Rawalpindi to Chakwal, Lahore to Narowal, Lahore to Pattoki, Lahore to Multan, Multan to Abdul Hakeem, Multan to Bahawalpur, Multan to Kot Addu, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Karachi to Sanghar, Sukkur to Nawabshah, Sukkur to Larkana
3.	Ufone	11	GT Road Peshawar to Rawalpindi, Rawalpindi to Attock, Lahore to Mianwali, Lahore to Narowal, Lahore to Pattoki, Multan to Abdul Hakeem, Multan to Kot Addu, Hyderabad to Badin, Hyderabad to Mirpur Khas, Karachi 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 5.9: ISHO for Circuit Switched Voice  $\geq 98\%$ .**

- ii. **NON-COMPLIANCE.** The towns where CMOs remained non-compliant is mentioned in **Table 5.1.1: ISHO for Circuit Switched Voice  $\geq 98\%$ .**

S. #.	Operator	Towns	
		Count	Names
1.	Jazz	3	Rawalpindi to Attock, Karachi to Sanghar, Sukkur to Nawabshah
2.	Telenor	2	Lahore to Mianwali, Hyderabad to Badin
3.	Ufone	5	Rawalpindi to Chakwal, Lahore to Multan, Multan to Bahawalpur, Karachi to Sanghar, Sukkur to Nawabshah

**Table 5.1.1: ISHO for Circuit Switched Voice  $\geq 98\%$ .**

- g. **RAB SETUP SUCCESS RATE.** All CMOs have achieved the QoS KPI **RAB Setup Success Rate  $> 98\%$**  in all 16 x surveyed Motorways / Highways / Inter Cities Roads.

## **SMS SERVICE**

6.1. 2 x QoS KPIs i.e. “SMS Success Rate” and “SMS End to End Delivery Time” have been measured and the results are as under:

- a. **SMS SUCCESS RATE.** The analysis of QoS KPI **SMS Success Rate of 99%** in all the 16 x surveyed Motorways / Highways / Inter Cities Roads and roads revealed following:
- i. **COMPLIANCE.** The Motorways / Highways / Inter Cities Roads where CMOs remained compliant is mentioned in **Table 6.1: Compliance of SMS Success Rate  $> 99\%$ .**

S. #.	Operator	Motorways / Highways / Inter Cities Roads	
		Count	Names
1.	Jazz	5	Multan to Abdul Hakeem, Hyderabad to Badin, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Sukkur to Larkana
2.	Telenor	5	GT Road Peshawar to Rawalpindi, Rawalpindi to Chakwal, Multan to Abdul Hakeem, Hyderabad to Badin, Sukkur to Larkana

S. #.	Operator	Motorways / Highways / Inter Cities Roads	
		Count	Names
3.	Ufone	8	GT Road Peshawar to Rawalpindi, Rawalpindi to Chakwal, Lahore to Pattoki, Multan to Abdul Hakeem, Multan to Bahawalpur, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Sukkur to Larkana
4.	ZonG	13	GT Road Peshawar to Rawalpindi, Rawalpindi to Chakwal, Lahore to Narowal, Lahore to Pattoki, Lahore to Multan, Multan to Abdul Hakeem, Multan to Bahawalpur, Hyderabad to Badin, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Karachi to Sanghar, Sukkur to Nawabshah, Sukkur to Larkana

**Table 6.1: Compliance of SMS Success Rate > 99%**

- ii. **NON-COMPLIANCE.** The Motorways / Highways / Inter Cities Roads where CMOs remained non-compliant is mentioned in **Table 6.2: Non-Compliance of SMS Success Rate > 99%.**

S. #.	Operator	Motorways / Highways / Inter Cities Roads	
		Count	Names
1.	Jazz	11	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 Bahawalpur, Multan to Kot Addu, Karachi to Sanghar, Sukkur to Nawabshah
2.	Telenor	11	Rawalpindi to Attock, Lahore to Mianwali, Lahore to Narowal, Lahore to Pattoki, Lahore to Multan, Multan to Bahawalpur, Multan to Kot Addu, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Karachi to Sanghar, Sukkur to Nawabshah
3.	Ufone	8	Rawalpindi to Attock, Lahore to Mianwali, Lahore to Narowal, Lahore to Multan, Multan to Kot Addu, Hyderabad to Badin, Karachi to Sanghar, Sukkur to Nawabshah
4.	ZonG	4	Rawalpindi to Attock, Lahore to Mianwali, Multan to Kot Addu, Karachi to Nawabshah

**Table 6.2: Non-Compliance of SMS Success Rate > 99%**

- b. **SMS END-TO-END DELIVERY TIME.** The analysis of QoS KPI **SMS End-to-End Delivery time of 12 Seconds** in all 16 x surveyed Motorways / Highways / Inter Cities Roads, revealed following:

- i. **COMPLIANCE.** The Motorways / Highways / Inter Cities Roads where CMOs remained compliant is mentioned in **Table 6.3: Compliance of SMS End-To-End Delivery Time ≤ 12 Seconds.**

S. #.	Operator	Motorways / Highways / Inter Cities Roads	
		Count	Names
1.	Jazz	13	GT Road Peshawar to Rawalpindi, Rawalpindi to Attock, Rawalpindi to Chakwal, Lahore to Mianwali, Lahore to Pattoki, Multan to Abdul Hakeem, Multan to Bahawalpur, Multan to Kot Addu, Hyderabad to Badin, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Sukkur to Nawabshah, Sukkur to Larkana
2.	Telenor	9	Lahore to Pattoki, Lahore to Multan, Multan to Abdul Hakeem, Hyderabad to Badin, Hyderabad to Mirpur Khas, Karachi to Nawabshah, Karachi to Sanghar, Sukkur to Nawabshah, Sukkur to Larkana
3.	Ufone	9	Rawalpindi to Attock, Lahore to Mianwali, Multan to Abdul Hakeem, Multan to Bahawalpur, Multan to Kot Addu, Hyderabad