

| | | | |
|----|-------|---|---|
| 3. | Ufone | 9 | Lahore to Kasur, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Peshawar to Abbottabad, Quetta to Sibbi, Quetta to Noshki & Quetta to Khuzdar |
| 4. | ZonG | 6 | Peshawar to Kohat, Peshawar to Swabi, Peshawar to Abbottabad, Quetta to Sibbi, Quetta to Noshki & Quetta to Khuzdar |

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 12 x surveyed Motorways / Highways / Inter Cities Roads, revealed following:

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

| S. #. | Operator | Motorways / Highways / Inter Cities Roads | |
|-------|----------|---|--|
| | | Count | Names |
| 1. | Jazz | 12 | Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Peshawar to Abbottabad, Quetta to Pishin, Quetta to Sibbi, Quetta to Noshki, Quetta to Khuzdar |
| 2. | Telenor | 10 | Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Quetta to Pishin, Quetta to Noshki & Quetta to Khuzdar |
| 3. | Ufone | 7 | Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Peshawar to Swabi, Peshawar to Haripur, Quetta to Pishin & Quetta to Sibbi |
| 4. | ZonG | 12 | Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Peshawar to Abbottabad, Quetta to Pishin, Quetta to Sibbi, Quetta to Noshki, Quetta to Khuzdar |

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

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

| S. #. | Operator | Motorways / Highways / Inter Motorways / Highways / Inter Cities Roads | |
|-------|----------|--|---|
| | | Count | Names |
| 1. | Telenor | 2 | Peshawar to Abbottabad & Quetta to Sibbi |
| 2. | Ufone | 5 | Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Abbottabad, Quetta to Noshki & Quetta to Khuzdar |

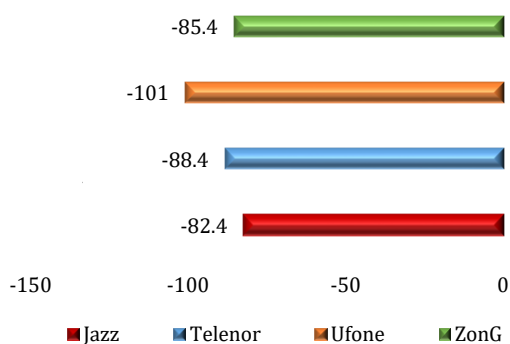
Table 6.4: Non-Compliance of SMS End-To-End Delivery Time \leq 12 Seconds

SURVEY MAPS & GRAPHICAL RESULTS

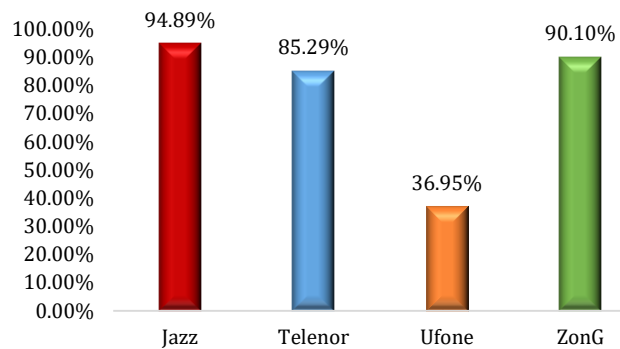
7.1 The 4G/LTE (RSRP) and 3G (RSCP) Signal Strength (i.e. wherever available) samples, recorded during drive test on survey routes, plotted on maps along-with Voice & SMS QoS KPIs survey results in graphical form, are placed at **Annex-A**, **Annex-B** & **Annex-C**, on Motorways / Highways and Inter-Motorways / Highways / Inter Cities Roads of Punjab, Sindh & Khyber Pakhtunkhwa respectively.

QUALITY OF SERVICE SURVEY RESULTS – RAHIM YAR KHAN TO MULTAN (N5)

4G Signal Strength (RSRP) > -100dBm



4G Signal Strength (RSRP) Confidence Level > 90%



User Data Throughput (4G) > 2Mbps

