СМО	KPIs	Threshold	KARACHI CENTRAL	KARACHI KEMARI	KARACHI MALIR	NANKANA SAHIB	NOWSHERA	MURIDKE	SWABI
Jazz	NA	<u>&gt;</u> 99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	≥98%	Yes	Yes	Yes	Yes	No	Yes	Yes
	CCT	<u>&lt;</u> 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MOS	≥3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	<u>≥</u> 98%	N/A	Yes	Yes	N/A	Yes	Yes	Yes
	RSSR	> 98%	Yes	No	Yes	Yes	Yes	Yes	Yes
Telenor	NA	≥99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	<u>≥</u> 98%	Yes	Yes	Yes	Yes	No	No	No
	CCT	<u>&lt;</u> 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	No	No
	MOS	<u>≥</u> 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	≥98%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	RSSR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ufone	NA	≥99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	<u>&gt;</u> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCT	<u>&lt;</u> 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MOS	<u>≥</u> 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	≥ 98%	N/A	N/A	N/A	N/A	No	N/A	N/A
	RSSR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ZonG	NA	<u>&gt;</u> 99%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CSSR	≥98%	Yes	Yes	Yes	Yes	Yes	Yes	No
	CCT	<u>&lt;</u> 7.5 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CCR	> 98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MOS	<u>≥</u> 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ISHO	≥ 98%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	RSSR	> 98%	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%

Table 5.1: Voice QoS KPIs Compliance Level

## **QUALITY OF SERVICE SURVEY RESULTS (4G) – NANKANA SAHIB**









