

LIST OF TABLES

Table 2. 1 Data throughput/session.....	16
Table 2. 2 Traffic Model and Single User Throughput (Urban)	16
Table 2. 3 Traffic Model and Single User Throughput (Rural)	17
Table 2. 4 Cell average throughput.....	18
Table 2. 5 RSRP quality value range	22
Table 2. 6 SINR quality value range.....	22
Table 2. 7 Throughput quality value range	23
Table 3. 1 Service Model LTE.....	29
Table 3. 2 Single User Throughput value for rural area	30
Table 3. 3 Network throughput value	30
Table 3. 4 Cell average throughput value	30
Table 3. 5 Value of link budget.....	31
Table 3. 6 Mining Technology Implementation	34
Table 3. 7 WLAN operational costs.....	35
Table 3. 8 LTE operational costs	35
Table 4. 1 User Total.....	37
Table 4. 2 Result Of Capacity Planning.....	38
Table 4. 3 Result Of Coverage Planning.....	39
Table 4. 4 Comparison of the Number of Sites.....	39
Table 4. 5 Statistical Drivetest TJL065.....	50
Table 4. 6 Statistical Drivetest TJL065	53
Table 4. 7 Technology Overview in the Mining Industry.....	57
Table 4. 8 Analysis of Network Selection Rationale for Mining Monitoring Systems	58
Table 4. 9 General Performance Analysis.....	64
Table 4. 10 Regulatory Compliance Analysis for Mining Technology and Monitoring Systems.....	66