

LIST OF TABLES

TABLE DETAILS	PAGE NO.
Table 3.1. Comparison between existing passive power grid and Smart grid	24
Table 3.2. Comparison of wired and wireless communication	36
Table 3.3. Technical specifications of Bluetooth	38
Table 3.4. Technical specifications of WirelessHART standard	41
Table 3.5. Technical specifications of Zigbee standard	45
Table 3.6. Technical specifications of Wavenis standard	49
Table 3.7. Technical specifications of 6LOWPAN standard	50
Table 3.8. Technical specifications of WLAN standard	53
Table 3.9. Technical specifications of Z wave standard	56
Table 3.10. Technical specifications of WiMAX standard	57
Table 3.11. Technical specifications of Cellular communication technologies.	59
Table 3.12. Technical specifications of PRIME and G3 PLC	64
Table 3.13. Comparison of various communication standards	65
Table 4.1. Mean values of results	80
Table 4.2. Mean values of results	86
Table 4.3. Mean values of results	92
Table 4.4. Default values of EDCA parameters	93
Table 4.5. Default and adapted values of EDCA parameters for simulation.	94
Table 4.6. Mean values of results	101
Table 4.7. Mean values of Media access delay	108
Table 4.8. Mean values of total packet delay	116
Table 4.9. Description of various parameters	148

Table 4.10. Description of various OLSR parameters	154
Table 5.1. Technical specifications of various components used in the prototype	163
Table 5.2. Various components used in the designed prototype	169