B. Each RTU controller together with its associated control and accessories e.g. back-up power, interposing relays, surge suppressors, barriers, fuse/MCB, terminals etc. shall be mounted and wired on a back plate. The assembly shall be tagged and fully factory tested by the RTU Vendor.

C. The fully factory tested, passed and tagged RTU sub-assembly shall be free issued to the MCC vendor for mounting in the MCC's dedicated and designated as RTU/Telemetry control section. All dimensions and wiring requirements shall be co-ordinated by the contractor, MCC vendor and RTU vendor accordingly.

D. While installing the RTU sub-assembly in the RTU section of the MCC, it shall be ensured that all parts of the sub-assembly have easy access and ability to do maintenance of the modules/cards.

E. The circumstances where the RTU is to be retrofitted to MCC or if due to size restrictions within the MCC, it is unfeasible then the RTU as a complete sub-assembly shall be mounted within a stand-alone IP65 enclosure.

F. The specification and guidelines pertaining to the design, construction, installation, testing and commissioning of standalone RTU as provided in the relevant sections "Factory Built Assembly", "Motor Control Centres" and "General Requirements" shall be followed.

G. The RTU shall be an intelligent device capable of handling data collection, logging, report by exception, current data retrieval and pump sequence control programs.

H. Each RTU shall be sized for controlling the specified input/outputs and future expansion.

I. The program and data held within memory shall remain intact and error free if all external power is removed from the RTU for a minimum period of one year.

J. The contractor shall supply batteries for each RTU with sufficient capacity to maintain full power to the RTU for 8 hours, after a power failure. The UPS system shall be integral to the RTU. The batteries shall be of a sealed NiCad maintenance free type.

K. All field connections shall be made in terminal strips located for easy access. These terminals shall be clearly marked and identified. Terminals carrying voltages in excess of 24V shall be fully shrouded to IP2X. All terminals shall be of the ‘flip up’ isolator type with test points.