B. The RTU shall be equipped with two PROMs, one EPROM for storing the system parameters and program and the second Flash EEPROM for storing application programs.

C. The RTU shall be embedded with RISK chip and have real time clock function.

D. Watch-dog, diagnostic LEDs and power monitoring shall be some of the monitoring features of the RTUs as a minimum

1.3.23.4 Digital Inputs

A. The digital inputs shall be voltage-free and earth-free contacts. Changes of state in the digital inputs shall be reported to the main processing module for further processing. The inputs shall be configurable from a downloadable database.

B. Digital inputs may either be single point, double point or multi-point. The interpretation of states for single or double point inputs shall be configurable

1.3.23.5 Digital Outputs

A. The digital output shall consist of volt-free relay contact outputs configurable for

B. Either normally open or closed in the de-energised state.

C. The rating of the relay contact shall be minimum 200 mA at 24 V dc for an inductive load, or 2A at 230V, 50 Hz ac for a resistive load.

D. The relays shall be rated for a minimum of 10^6 operations. The RTU shall monitor the relay driver circuit and check for the correct operation of the relay.

E. Each digital output shall be configurable between continuous and pulse modes.

F. In continuous mode, the digital output shall be set to a particular state and remain there until set to the opposite state. In pulse mode, the digital output is set to the energised state for a pre-programmed time, which shall be a minimum of 2 s. The time shall be user configurable for each pulse mode output. The mode and time information shall be downloadable from the LCC.

G. All outputs shall be wired to an interposing relay for driving the logic

1.3.23.6 Analogue Inputs

A. A minimum of 12-bit analogue to digital conversion shall be used providing a minimum resolution of 1 in 4,096.