

OVERSTRAND MUNICIPALITY: ELECTRICITY DEPARTMENT

TENDER SC 1012/2010

Specifications For PLC [Power Line Carrier] based prepayment meters

1. Single phase 80A DIN rail mounted split prepayment meters
2. Single phase 80A split prepayment meters in a common base housing
3. Three phase 4-wire 100A split prepayment meters in a compact BS housing
4. Customer Interface Unit
5. Filters to pre-vent distortion.

The minimum technical requirements that should be adhered to are as follows:

- a. Split type prepayment meters must use Power Line Carrier communication between the meter and the customer interface unit, using standard household wiring
- b. The meter shall consist of two parts, i.e. the active meter and the customer interface unit
- c. The customer interface unit shall fit into a standard electrical socket outlet inside the house. The keypad shall be of a customer friendly, easy to understand and operate nature
- d. The meter shall have a programmable software power limit
- e. The meter shall be STS compliant
- f. The meter shall have Significant Reverse Energy detection facilities
- g. The customer interface unit shall correctly operate at a maximum separation of 150m from the active meter
- h. The customer interface unit shall have battery backup for operation in the event of meter credit expires
- i. The meter shall have a IEC 62056-21 compliant optical communications port
- j. The meter shall have an internal contactor of minimum rating 100A single phase, or 100A 3-phase
- k. The accuracy class of the meter shall minimum be class 2

For technical enquiries please contact:

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