



BA-PHALABORWA MUNICIPALITY

MEMORANDUM

BUDGET AND TREASURY

TO : *Prospective Service Provider*
FROM : *SCM /STORES*
DATE : *06/09/2021*
ENQUIRIES : *STORES*
TELEPHONE : *015 780 6361/62*
REF : *EL14/21-22*

Kindly furnish this office with a written quotation for supply of goods/ services as detailed below. The quotation must be submitted on the letterhead of your Business and Brought to our offices 3 Nyala Street, Phalaborwa not later than **14/09/2021 at 12H00**

QUANTITY	Description	PRICE/UNIT (Inc. VAT)	DELIVERY PERIOD
25	Meter prepaid split-3phase PLC	Each	

Please number your quotes (Your Ref no)

The following conditions will apply:

- *Price (s) quoted must be valid for at least thirty (30) days from date of your offer.*
- *The municipality retains the prerogative to reject any quotes it deems to be excessive*
- *A firm delivery period must be indicated.*
- *Tax Clearance Certificate*
- *A service provider be registered with central supplier database (CSD)*
- *Registered with CIPRO (CK 1 or 2 document)*
- *BBBEE Certificate certified by a SANAS accredited institution.*
- *Completed MBD4 (Declaration of Interest) Form*
- *Completed MBD6.2 FORM*

Fill in and Return the Declaration of Interest Form.



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DEPARTMENT OF TECHNICAL SERVICES.

PRE-PAID ELECTRICITY METERS

BID SPECIFICATIONS

BID DESCRIPTION: SUPPLY AND DELIVERY OF SINGLE AND THREE PHASE PRE-PAYMENT METERS

1. The prepayment meter must be a Split meter which shall consists of the following components:
 - a) Energy management Unit (EMU)
 - b) Consumer interface Unit (CIU)
2. Communication between consumer interface unit and energy management unit:
 - a) By means of power line carriers (PLC) technology.
 - b) MUST be of design that doesn't allow appliances or equipment to interfere with the communication of the meter.
3. **Energy management unit (EMU)**
 - a) The footprint of the energy management unit (metering unit) must be a compact meter (EMU) design, with DIN rail-mount or compact BS housing layout for single phase and compact BS housing for triple phase.
 - b) Rated voltage 230 Volts AC.



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- c) Operating voltage 230 volts (-20% to +15%)
- d) Over voltage to withstand SABS (1524) 400 volts for 48 hours.
- e) Basic current Ib – 20 Amps
- f) Maximum continuous Current I_{max}. – (s/p)80 Amps and (t/p)100Amps
- g) Measuring currency. (SABS; IEC6 1036 Accuracy class) – Class 2 (approx. 2% from 0,1I_b to I_{max}).
- h) Rated frequency – 50 Hz
- i) Power consumption / Burden - Voltage circuit < 3 Watts / 12 VA Current circuit < 2,5VA
- j) Inherent voltage impulse withstand (BIL) – 6Kv 1,2/50µs
(No surge arrestor)With surge arrestor – Service rating – 5Ka (8/20µs waveform)
Withstand rating (2minutes) - 30Ka (8/20µs waveform) Insulation properties (1minute) –
2kVrms (Class 1) 4kV impulse (Class 1) 1,2/50µs waveform Over voltage 400 volts for 48
hours
- k) Energy direction – Forward and reverse
- l) Disconnecting Device Type.:Single pole latching contactor Rated current 100 Amps Type:
3 pole latching contactor Rated current 100 Amps
- m) Applicable specifications : (SABS) IEC 6 1036SABS 1524 NRS 009
- n) Short circuit current : 2,4Ka

3.1 Environmental Conditions:

- a) Operating temp. range : -10°C (+14°F) to +55°C (+131°F)
 - b) Storage temp. range : -25°C (-13°F) to +70°C (+158°F)
 - c) Relative humidity (IEC 6 1036) – annual mean 75% (Max. 95%)
 - d) Degree of protection : IP 51
4. Total encryption method 20-Digit-STS
5. Communication circuitry: Up to 100 metres.
6. Sealing: Factory sealed with screw-seals or stainless steel wire ferrul seal.

ALL Energy meters will be programmed with 50 Units of Kwh before delivery to Ba-Phalaborwa Municipality.

7. Consumer Interface Unit (CIU)



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- a) The following must be printed on the consumer interface unit: This electrical unit is the property of the local supply authority. The use of it is subject to the local authority's conditions of supply.
- b) Keypad: 12 key international standard layout including "information" and "backspace" keys.
- c) Rate of consumption indicator (Pulse rate proportional to current rate of consumption).
- d) Diagnostic information: 20 additional meter parameters accessible via "information" key.
- e) Must be a user friendly consumer interface unit, making use of a clear language and must display all parameters of the meter including low credit warning, energy consumption and load contactor status.



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PRICE SCHEDULE

1. **COMMUNICATION BETWEEN INTERFACE UNIT AND ENERGY MANAGEMENT UNIT BY MEANS OF POWER LINE CARRIER (PLC) TECHNOLOGY**

1.1 **Single phase split prepayment meter using power line carrier (PLC) Technology**

DESCRIPTION	PRICE PER UNIT (VAT INCLUDED)	SABS Mark	Delivery Period	Settlement discount for 30 days:
1) Interface Unit (Remote Control)				
2) Energy Management Unit DIN RAIL MOUNTED (Metering Unit)				
Name of Manufacturer				
Total 1 & 2	(A)			

1.2 **Three phase split prepayment meter using power line carrier (PLC) Technology**

DESCRIPTION	PRICE PER UNIT (VAT INCLUDED)	SABS Mark	Delivery Period	Settlement discount for 30 days:
3) Interface Unit (Remote Control)				
4) Energy Management Unit COMPACT BS HOUSING (Metering Unit)				
Name of Manufacturer				
Totals 3 & 4	(B)			
Totals	(A & B)			



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NOTE: 1) PRICES WILL INCLUDE TRANSPORT AND DELIVERY AT BA-PHALABORWA MUNICIPALITY STORES.