



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** : *EL15/21-22*

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**

<b>QUANTITY</b>	<b>Description</b>	<b>PRICE/UNIT (Inc. VAT)</b>	<b>DELIVERY PERIOD</b>
<b>50</b>	<b>Prepaid meter 1p split emu/ciu</b>	<b>Each</b>	

**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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**BA-PHALABORWA MUNICIPALITY**

**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<sub>max</sub> – (s/p)80 Amps and (t/p)100Amps
- g) Measuring currency (SABS; IEC6 1036 Accuracy class) – Class 2 (approx. 2% from 0,1I<sub>b</sub> to I<sub>max</sub>).
- 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 (1 minute) –  
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.**