

BA-PHALABORWA MUNICIPALITY

MEMORANDUM

- BUDGET AND TREASURY _

TO FROM DATE ENQUIRIES TELEPHONE REF : Prospective Service Provider : SCM /STORES : 03/11/2020 : STORES : 015 780 6362/61 : 136281

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 **11/11/2020**

QUANTITY	Description	PRICE/UNIT (Inc. VAT)	DELIVERY PERIOD
50	Single Phase 80 A prepaid Electricity meters/PLC operated, complete		
	With CIU/ As per attached specification		

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
- > COMPLETE MBD6.2

BID SPECIFICATIONS

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

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)
- 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.
- 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 Imax. (s/p)80 Amps and (t/p)100Amps
- g) Measuring currency (SABS; IEC6 1036 Accuracy class) Class 2 (approx. 2% from 0,1lb to Imax).
- 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
 - 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

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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)
 - 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).

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- 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.

PRICE SCHEDULE

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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

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

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

	PRICE PER UNIT	SABS Mark	Delivery Period	Settlement
DESCRIPTION	(VAT INCLUDED)			discount for 30 days:
 Interface Unit (Remote Control) 				
4) Energy Management Unit COMPACT BS HOUSING				
(Metering Unit)				
Name of Manufacturer				
Totals 3 & 4 (B)				
Totals (A & B)				
NOTE: 1) PRICES WILL INCLUDE TRANSPORT AND DELIVERY AT BA-PHALABORWA MUNICIPALITY STORES.	ORT AND DELIVER	Y AT BA-PHALAB	ORWA MUNICIPA	ALITY STORES.

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