

28 MARCH 2017

QUOTATIONS ARE HEREBY REQUESTED IN ACCORDANCE WITH THE SCM REGULATIONS SECTION 18 OF THE LOCAL GOVERNMENT MUNICIPAL FINANCE ACT 56 OF 2003, FOR THE PURCHASE OF ITEM/S THAT COULD BE ABOVE R30 000.00.

QUOTATIONS MUST BE SUBMITTED IN SEALED ENVELOPES CLEARLY MARKED "SUPPLY AND DELIVERY OF 200 PRE-PAID PLC METERS WITHOUT COMMUNICATION WIRES" TO THE QUOTATION BOX SITUATED AT:

RATES AND TAXES HALL (LESEDI OFFICES)  
C/O LOUW AND HF VERWOERD STREET  
HEIDELBERG  
1438

ALL ENQUIRIES REGARDING THE SPECIFICATIONS SHOULD BE REFERRED TO MS. MANELLA NCHECHE @016 492 0077.  
ENQUIRIES REGARDING THE BIDDING PROCEDURE SHOULD BE DIRECTED TO MS. SIBULELO NXATHI@016 492 0202.

**DEPARTMENT: ELECTRICAL**

**CLOSING DATE: 06 APRIL 2017 @12h00**

**SPECIFICATIONS: SUPPLY AND DELIVERY OF 200 PRE-PAID PLC METERS WITHOUT COMMUNICATION WIRES**

Voltage ratings

Nominal voltage (-20% +±5%) 110VAC - 127VAC 220VAC - 240VAC

Supply frequency (±5%) 60Hz 50Hz

Current ratings

Base current (I<sub>b</sub>) 5A

Max current (I<sub>max</sub>) 100A

Min starting current

Class 1 20mA

Utilisation category UC2

Nominal power consumption 1.6W / 9VA

Accuracy Class 1 and 2 (maintained throughout life cycle of product)

Over voltage rating 440VAC for 48 hours

Short circuit rating	Short-circuit withstand 3.0kA
Protection	Power overload Thermal overload Current overload Line / load reversal Over / under voltage Delayed reconnection
<u>Environmental</u>	
Operating temperature	-10°C to +55°C
Storage temperature	-25°C to +70°C
Humidity	95% non-condensing
IP rating	IP 54 (Meter and user interface unit)
RF immunity	30V/m
Status indicators	Load / power status MCU / UIU communication Rate LED (1000 pulses / kWh)(On MCU)
<u>Installation</u>	
Footprint	DIN rail mounted (35mm)
Insulation class	Double insulation
Terminal	Live Neutral
Type	Cage clamp Cage clamp
Maximum size	25mm <sup>2</sup> 16mm <sup>2</sup>
<u>Interrogation</u>	
Type (Optional)	MC171 direct probe USB type port Flags (Optional) Radio frequency
<u>Security</u>	
Meter housing	Security seals
Tamper protection	Tamper terminal cover Load disconnection on tamper detection
<b>User Interface Unit w UIU range ranges</b>	
Without communication wire	

## Product specifications

### Electrical ratings

Battery size (Alkalline)	AA
No. of batteries required	2
Battery voltage	1.5v
Operating voltage range	1.8v to 3V
Typical battery life	3 years
Customer displayed Information	Status of consumer's AC supply Available credit Low credit warning Token accept / reject Previously entered STS tokens (meter dependant) Meter status register Consumption data

### Displays

Number of digits: 7 major / 2 minor  
Character height: 15mm / 7mm  
Type:Liquid crystal display  
Viewing area: 53mm x 30mm  
Enunciators: 10 segment bar graph

### Keypad

Columns x rows: 3 x 4  
Key press feedback: tactile / silicon rubber keys  
Accessibility: visually impaired friendly

### Audible feedback

Key presses  
Token acceptance / rejection  
Low credit warning

### ICASA approval

TA-2009/565

### WMI

Wireless Meter Interface

### Connectivity

Meter: current loop or galvanically isolated WMI: RF modem

### WMI electrical rating

Current Loop Galvanically isolated

Current loop (m A)-continuous

3 2

Operating voltage range (Vdc)

20 12

### Communication

RF type: 433.05MHz to 434.790 MHz (SRD band within the 10Mw

### RF communication distance

Line of sight: 100m built up environment: 50m

## Insulation

Insulation system classification

Impulse

AC Voltage

ICASA approval

Terminals

Mounting

Environmental

Operating temperature

Storage temperature

Humidity

IP rating

Mechanical

6kV

4Kv(RMS) for 1 minute

A-2009/566

Type:Drop wire Maximum Size:0.7

35mm DIN mount 12.7mm bandit strapping

wUIU WMI

-10 C to + 55 C

-25 C to +70 C

95% non-condensing

IP 54 IP 65

Name of Company: \_\_\_\_\_

Fax: \_\_\_\_\_

Telephone: \_\_\_\_\_

Date: \_\_\_\_\_

The following documents must be submitted with the quotation, failure in submitting these documents will result in a quotation being disqualified:

- Original tax clearance certificate/Pin Provided by SARS
- MBD Forms listed below ( Evaluation Criteria )
- Latest municipal account / Clearance Certificate for Water and Lights
- CSD registration report/supplier number
- Letter of good standing

**EVALUATION CRITERIA:** 80/20 Preference point system as presented in the preferential procurement policy framework Act no 5 of 2000, for this purpose the MBD 2, MBD4, MBD 6.1 MBD 8 MBD 9 and the Clearance Certificate for Water & lights can be downloaded from our website on the following link: [www.lesedilm.gov.za/key/scm](http://www.lesedilm.gov.za/key/scm) MBD forms should be scrutinized, completed and submitted together with your quotation. All objections and complaints must be lodged within 14 days and in writing to the municipal manager's office

**Bidders who did not submit an original or certified copy of their BBBEE Certificate will not be allocated preference points and will only be evaluated on price.**

NB: All bidders must ensure that they are registered on the National Treasury Central Supplier Database via the following link:[business.support@csd.gov.za](mailto:business.support@csd.gov.za). No business will be conducted with any person who is not registered on this database.

**ANY BIDDER WHO IS INTERESTED IN ATTENDING THE OPENING IS WELCOME TO DO SO**