The procurement strategy for meter audits, collection of field data, testing and meter upgrades, change outs and Prepaid Power User (PPU & SPU) Meter Moves, change outs and upgrades for various zones within the Limlanga Cluster (Limpopo & Mpumalanga) on an "as and when" required basis

Background

- ✓ The maintenance and operations is responsible to build maintain and repair network equipment. Currently the resources available are inadequate to perform all activities, scheduled and unscheduled maintenance. It is therefore important to have additional resources available to augment the current manpower resources.
- ✓ Skilled service providers will be appointed to ensure that the service carried out of meters audits, meter moves, meter upgrades and changing of magnetic meters with smart meters.
- ✓ **Currently there is a contract in place running**

Motivation

- ✓ Currently there are 403 498 customers who are zero buyers of electricity, and they must be audited in Limlanga cluster. Also note that the Zero buyers add on the system daily due to different reason therefore this poses challenges for the business

  - There previous panel contract consisting of thirty contractors (15 Meter Moves and 15 Meter Audits) in various zones within the Limlanga Cluster -Limpopo, on an "as and when" required basis which commenced on 26 June 2023 and expired on 26 June 2026. The Expenditure of the Panel is attached.

- ✓ Allocation of task orders amongst the contractors within this panel will be delegated to the Limlanga Cluster - Limpopo Task Order Committee to ensure fair, equal and transparent allocation of work to service providers on the panel contracts.

The benefits of implementation of this strategy will result in the following:

- ✓ To enhance revenue collection
- ✓ To ensure that customers are billed correctly
- ✓ Prevent electricity theft
- ✓ Reduced overtime on the current resources
- ✓ It will assist with reduction of accident and incident that may occur due to fatigue.
- ✓ It improves the energy sales
- ✓ It will improve customers relations
- ✓ Improves the health of the network
- ✓ Improves the availability of supply

Supported: Blessing Mbatha
Smart Metering Manager
Date: 02/06/2025

Controlled Disclosure

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Description of the works – Scope

The scope of work / specification for the procurement of Meter audits, collection of field data, testing and meter upgrades, change outs and Prepaid Power User (PPU & SPU) Meter Moves, change outs and upgrades for various zones within the Limlanga Cluster (Limpopo & Mpumalanga) on an "as and when" required basis for a period of 36 months. In general, the scope of work covered by this contract includes:

All work shall be performed in accordance with the relevant Eskom and OEM (Original equipment manufacturer) Standards/Procedures/Task Manuals pertaining to the tasks to be performed and scope of work of the contract.

1. Auditing and testing SPU & PPU meters

The Provision of services for PPU & SPU meter audits, faulty meter replacement, disconnections of tempered installations and reconnection thereof in Limlanga Cluster - Mpumalanga comprising of two main activities as summarized in the subsections below.

ACTIVITY 1.1 - Pre-Paid (PPU) Meters

a) Audit meter by performing meter trip test, seal all meters that has passed trip test if found not sealed and capture field data using own handheld Units (HHU) for a 1Ø & 3Ø supply point

b) Disconnect supply point if meter found bypassed / tampered or illegally connected and issue tamper fee for 1Ø & 3Ø supply point using Remedial Fee forms and take 2 photos clearly indicating the form of bypassed / tampered or illegally connected meter.

c) In cases where the auditor suspects ghost units are being purchased, then the auditor must take clear photos of the meter number, units and installation pole number and report to Eskom to do further investigation.

- The photograph must be submitted to the relevant *ESKOM*'S office within the agreed timeline schedule.
- Note: ESKOM will not pay for the activity until all the documentation and photos are submitted.
- The photograph must have time and date stamp (Watermark). No photographs will be accepted without a time and date stamp NB: This time and date stamp must not be imprinted on any photo in the form of digital editing (Photoshop) and stationery or rubber stamp.

d) Perform meter change-out for a Faulty Single phase or Poly phase meter

e) Coding of an STS meter to the new Supply Group Code

f) Capture metering and customer data for all points not on Eskom's systems

g) Where a magnetic meter is found at an Eskom customer installation the meter must be replaced with Eskom specified meter e.g. Smart meter

ACTIVITY 1.2 - CONVENTIONAL (SPU) METERS

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Smart Metering Manager
Date: 02/06/2025

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a) Data collected in premises with faulty meter points that could not be tested using meter verifier or due to no supply must be specified in the report as to being unable to perform the test due to no supply.

b) If the meter readings are not clearly visible it should be specified in the report to be submitted.

c) Perform meter change-out for a Faulty Single phase or Polyphase meter.

d) Audit meter and capture field data, perform meter accuracy test, observe and capture remarks using own handheld Unit (HHU) for a 1Ø phase supply point.

e) Audit meter and capture field data, perform meter accuracy test, observe and capture remarks using own handheld Unit (HHU) for a 3Ø phase supply point.

f) Disconnect supply point if meter found bypassed / tampered by removing meter circuit breaker (Main circuit breaker) and its jumper cable for a 1Ø supply and take photos.

g) Disconnect supply point if meter found bypassed / tampered by removing meter/s circuit breakers and its jumper cables for a 3Ø supply and take photos.

- Photos to be taken of all installations visited shall be clear and include; complete installation, Pole number, meter number, close-up photo of the components disconnected, tampered or bypassed.
- The photograph must be submitted to the relevant ESKOM'S office within the agreed timeline schedule.

Note: ESKOM will not pay for the activity until all the documentation and photos are submitted

- The photograph must have time and date stamp (Watermark). No photographs will be accepted without a time and date stamp NB: This time and date stamp must not be imprinted on any photo in the form of digital editing (Photoshop) and stationery or rubber stamp.

2.(PPU) Meter Moves, Change Outs, Upgrades, and new installation

HOUSE CONNECTION

- Overhead Connection
- Underground Connection

Sundry Item

- SHACK POLES (Incl. Excavation)
- 4&5m Wood Shack Pole
- 7m Wood Shack Pole
- 9m shack pole (including excavation)
- Extra over for hard holes 4 & 5m
- Extra over for hard holes 7m
- Extra over for hard holes 9m
- Trenching for cable: Soft
- Trenching for cable: Rock
- Pole top box installation
- Store and site office (fixit) 0-200

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- 63A Morsdorf Breaker
- Change Faulty meter
- Installation of external ECU box

SPU CONNECTIONS

- Meter box single phase 16KVA installation including cable above ground level
- Meter box three phase 25 to 100kVA installation including cable above ground level
- Poly phase meter box 100kVA installation including cable above ground level
- Lay cables including terminations
- Cables laid in ground 16 x 2
- Cables laid in ground 25 x 4
- Cables laid in ground 35 x 4
- Cables laid in ground 70 x 4
- Excavate in soft and/or Rock material for trench (600mm) incl. backfilling
- Installation of Three- or Single-phase meters
-

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Smart Metering Manager
Date: 02/06/2025

TECHNICAL EVALUATION

The evaluation will be conducted in Four (4) consecutive stages, i.e. Stage 1: Mandatory requirements, Stage 2: Functional requirements evaluation, Stage 3: Site Assessments and Stage 4: Contractual requirements. The assessment will follow a documented supplier capability and capacity assessment criteria as shown in Tables 1 to 6. These criteria are intended to assess the technical capabilities of the supplier and the service offered for tenderer to ensure it meets the tender requirements:

1: Functional Requirements

This will be a desktop evaluation of the functional requirements ONLY. Contractual requirements submitted will not influence the results of Stage 2 evaluation.
The table below shows the high-level explanation / rational behind the technical requirements and the weightings.
Suppliers/Tenderers need to obtain a minimum threshold of 75% to be technically recommended to proceed to stage 3.

Table 2: Functional Requirements

Item No.	Description	Weight	Notes on the item	Evidence
1	Training Requirements for a Key Person or Team Leader.	40%	Certificates to be certified and the certification must be valid i.e., not older than three months from tender closing date.	Valid Certificates as per Table 3 below.
2	Tools and equipment	40%	These tools are minimum requirements, and the contractor is expected to own these if they are in the LV electrical business or if the company plans to be in this business. No Hiring will be accepted.	Tools list as per Table 4 below.
3	Bakkie (fit for the job)	20%	This vehicle is sufficient to carry the required tools and transport personnel. Hiring with acceptable proof from a bona fide vehicle hiring company will be accepted. Must be a bakkie capable of handling extreme off-road terrain.	Vehicle as per Table 5 and copy of vehicle Registration Certificates.

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Training Requirements for a Key Person or Team Leader

There are two options that a tenderer needs to comply with i.e. Option 1:

Requirements of the contractor is fully authorised in any Eskom Distribution Clusters or option 2:

Requirements if the contractor is not authorized in any Eskom Distribution Clusters.

Table 3: Training Requirements for a Key Person

Item No.	Criteria	Evidence	Evidence Notes	Min. Required	Max. score
OPTION 1 (IF FULLY AUTHORISED IN ANY ESKOM DISTRIBUTION CLUSTER)					
1	Low Voltage Authorization	Authorization certificate	• Certificate must be certified and not older than three months from the tender closing date. • Certificate must be valid at tender closing date.	**1**	**20**
2	Working from heights Training	Working from heights Training Certificate.	• Certificate must be certified and not older than three months from the tender closing date. • Certificate must be valid at tender closing date.	**1**	**10**
3	Metering Training (e.g. Prepaid meters, Conventional / magnetic meters)	Metering Training Certificate (e.g. Prepaid meters, Conventional / magnetic meters)	• Certificate must be certified and not older than three months from the tender closing date. • Certificate must be valid at tender closing date.	**1**	**10**
	TOTAL WEIGHT				**40**
OPTION 2 (IF NOT AUTHORISED IN ANY ESKOM DISTRIBUTION CLUSTER)					

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Date: 02/06/202

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The key risks associated with the execution of the strategy, and how such risks will be mitigated:

RISK	MITIGATING FACTORS	LEVEL (HIGH/MEDIUM/LOW)
Cost: The Costs of a Project will be determined on the Task Order	Quantities to be done will be identified upfront to ensure proper pricing	Low
Scope: Connection capability of the new Meter with the Old Meter.	Miscellanies material will be added on the scope	Low
People: The spread of Covid 19 will affect the availability of skilled staff to work. There is a risk of labour unrest given the prevailing situation in South Africa. Current Socio-Economic Situation In South Africa	Contractors will be required to have more than one skill per category Customer services will be informed to assist with councilors for stakeholder management to enable contractors to perform the service.	Low
Suppliers: Access to the meters in people's houses Suppliers bridging Meters when conniving with Customers	Make Appointment with owners ahead Sample Inspections will be done by Eskom Employees after work is done	Low

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