Eskom	Report	Technology

Title: **TECHNICAL EVALUATION CRITERIA FOR POLE TOP SPLIT METERING KIOSKS**

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Content

1. Introduction

This document provides an overview of Eskom's technical requirements for an enquiry for the supply of pole top split prepayment metering kiosks for outdoor use. This document provides an overview of the requirements for the different metering kiosks, and acts as an index and supplement to the detailed design drawings and standard.

This document defines the technical evaluation criteria that will be used in the enquiry for pole top split prepayment metering kiosks.

2. Supporting clauses

2.1 Scope

2.1.1 Purpose

This document provides information relating to an enquiry for the technical evaluation, acceptance and supply of pole top split prepayment metering kiosks for use in Eskom.

2.1.1.1 Metering kiosk types

The enquiry includes the following pole top split prepayment metering kiosks types:

Table 1: Pole top split prepayment metering kiosks types

Item	Meter Module Type	Drawing number	SAP number
1	BOX, POLE TOP SPLIT METER 2-WAY 50A	D-DT-1042 & D-DT-3055	0245949
2	BOX, POLE TOP SPLIT METER 2-WAY 120A	D-DT-1042 & D-DT-3055	0670228
3	BOX, POLE TOP SPLIT METER 4-WAY 50A	D-DT-1043 & D-DT-3055	0229922
4	BOX, POLE TOP SPLIT METER 4-WAY 120A	D-DT-1043 & D-DT-3055	0245950
5	BOX, POLE TOP SPLIT METER 6-WAY 50A	D-DT-1044 & D-DT-3055	0670312
6	BOX, POLE TOP SPLIT METER 6-WAY 120A	D-DT-1044 & D-DT-3055	0670315
7	BOX, POLE TOP SPLIT METER 8-WAY 50A	D-DT-1045 & D-DT-3055	0229921

Suppliers may tender for any single item, multiple items or all the above items. Preference shall be given to suppliers that can provide all / most of the items above.

2.1.2 Applicability

This document shall apply throughout Eskom Holdings Limited Distribution and Transmission Divisions.

2.2 Normative/informative references

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

[2] 240-75659760 Pole-mounted service distribution boxes for split prepayment metering standard

[3] D-3055 Buyers guide for pole top split prepayment metering kiosks.

[4] D-1042 Manufacturing drawings for pole top split prepayment metering kiosks 2-way.

[5] D-1043 Manufacturing drawings for pole top split prepayment metering kiosks 4-way.

[6] D-1044 Manufacturing drawings for pole top split prepayment metering kiosks 6-way.

[7] D-1045 Manufacturing drawings for pole top split prepayment metering kiosks 8-way.

[8] SANS 60439 Low-voltage switchgear and control gear assemblies Part 5: Particular requirements for assemblies for power distribution in public networks.

[9] Technical requirements, questionnaires and deviation schedules (Microsoft Excel files):

- Technical requirements for pole top split prepayment metering kiosks.

2.2.2 Informative

None

2.3 Definitions

2.3.1 General

N/A

2.3.2 Disclosure classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 Abbreviations

N/A

2.5 Roles and responsibilities

This document defines the technical evaluation criteria that will be used by the Eskom technical evaluation team for the evaluation of pole top split prepayment metering kiosks.

2.6 Process for monitoring

None

2.7 Related/supporting documents

None

3. Project Timeframes and Deliverables

The technical evaluation will be conducted over two phases as follows:

3.1 Phase 1: Product A&B Schedules, Risk and Support

Suppliers / manufacturers shall be evaluated on the tender returnables (Technical schedules and Risk and Support). Suppliers / manufacturers which have passed the technical evaluations will be required to provide prototypes and these will be evaluated during phase 2.

3.2 Phase 2: Sample Evaluation

Only suppliers that meet the criteria set aside for phase 1 will move onto phase 2 of the technical evaluation.

Suppliers / manufacturers shall be advised of their qualification for the evaluation after phase 1 where after they need to prepare the samples. The samples must be ready for inspection a month after notification. Eskom shall notify the supplier / manufacturer of the exact date of the evaluation.

The following items shall be manufactured for technical and quality evaluations:

1. Item 1 - Box, pole top split meter 2-way 50A, drawings D-DT-1042 & D-DT-3055 and SAP 0245949
2. Item 4 - Box, pole top split meter 4-way 120A, drawings D-DT-1043 & D-DT-3055 and SAP 0245950
3. Item 6 - Box, pole top split meter 6-way 120A, drawings D-DT-1044 & D-DT-3055 and SAP 0670315
4. Item 7 – Box, pole top split meter 8-way 50A, drawings D-DT-1045 & D-DT-3055 and SAP 0229921

NOTE: The pole top split prepayment metering kiosks must be fully populated as per the SAP descriptions, standard and drawings.

Supplier / manufacturer visits shall be conducted to evaluate if the pole top split prepayment metering kiosks fulfills design requirements and to verify the information provided in the questionnaire relating to risk and support.

The evaluations shall be conducted at the supplier / manufacturer's premises.

4. Tender Returnables (Technical phase 1)

Tenderers shall supply the following information:

1) Completed general questionnaire as listed in the Excel files for each item.

2) Completed technical schedules for all items tendered as listed in the Excel files for each item.

3) Completed risk and support questionnaire as listed in the Excel files for each item.

4) Data sheets, brochures and test certificates (where applicable).

5. Tender Evaluation (Technical)

Tender responses shall be evaluated using the methodology of the Preferential Procurement Policy Framework Act (05 of 2000).

The technical tender evaluation will comprise of a detailed technical evaluation whereby the Product A&B schedules and the Risk and Support questionnaires are evaluated and then the sample evaluations at the manufacturer's manufacturing premises.

The overall technical scoring shall be made up of scoring in the various sub-categories during the different phases of the technical evaluation as follows:

5.1 Phase 1 – Product A&B schedules and Risk and Support

Phase 1 shall be made up of scoring in two sub-categories and shall be adjudicated a score out of 100 as follows:

Table 2: Phase 1 scoring breakdown

Phase 1 - Technical sub-category	Weightings
Product A&B Schedules	60
Risk and Support	40
Total	100
Minimum threshold for qualification	**85**

Only suppliers that meet the minimum threshold for phase 1 will move onto phase 2 of the technical evaluation. Tenders that do not meet the minimum threshold shall be immediately excluded from further evaluation.

5.1.1 Phase 1- Technical Sub-Category: Product A&B Schedules

This section shall comprise scoring of the technical schedules. Major deviations to scored items shall be addressed in Sub-category: Risk and Support.

The A&B Schedules use a default weight of 1 for each scored item. Critical items are assigned higher weights. For example, a weight of 10 indicates that the item will count the same as ten items with weight 1. Each item will be assigned a score by the Eskom evaluation team based upon the tendered response and cross-checked with the supporting documents provided.

Table 3: Scoring of items in Technical Schedules A&B

Criteria	Score
Fully compliant (Indicated as **Y** in A&B Schedules)	3
Partially compliant - minor deviation (Indicated as **P** in A&B Schedules)	1
Non-compliant - major deviation (Indicated as **N** in A&B Schedules)	0

The score for each item will be multiplied by its weight to obtain the total score per item. All scores for the A&B Schedule will be tallied and shall be calculated based on the maximum possible score. This will be recorded as the percentage score.

5.1.2 Phase 1 – Technical Sub-Category: Risk and Support

The Eskom technical team will evaluate the risk and support capability of the supplier / product based on the Risk and Support Questionnaire as listed in the Excel file, deviations schedules and from the non-scored components in Sub-category: Product A&B Schedules. The evaluation of the risk and support of the product / supplier shall be adjudicated a score out of 100 made up of two areas as follows:

Product Risk (60): A score derived for the product risk based on the following areas and weighted as follows:

- Installed base / time that the product has been installed (weight 25)
- Deviations from standards (weight 25)
- Ability to deliver (weight 25)
- Historical performance (weight 25)

Support (40): A score derived for support based on the following areas and weighted as follows:

- Link between supplier / manufacturer and sub-contractors (weight 30)
- Maintenance support (weight 50)
- Spares holding (weight 20)

5.2 Phase 2 – Sample evaluations

Sample kiosks shall be evaluated and tested against the requirements of the respective standard and manufacturing drawings. A score will be allocated for each sample according to the requirements as listed in the sample evaluation scorecard.

The samples shall be adjudicated a score out of 100 with a ***minimum threshold for qualification of 85 on all of the required samples***.

5.3 Type testing of kiosks

Manufacturers will be required to submit their pole top kiosks for type testing after contract award. The type test certificates must be presented to Eskom six months after contract award.

6. Authorization

This document has been seen and accepted by:

Name and surname	Designation
Aletta Mashao	PTM&C Engineering Senior Manager
Deon van Rooi	Metering, DC and Security Technologies Manager (Acting)

7. Revisions

Date	Rev.	Compiler	Remarks
July 2020	2	HPD Groenewald	Added requirements for the full technical evaluation including sample evaluations.
October 2019	1	HPD Groenewald	Original document

8. Development team

The following people were involved in the development of this document:

- Mohamed Omar
- Henri Groenewald
- Jutas Maudu

9. Acknowledgements

None