

Title: **EVALUATION CRITERIA FOR  
BULK POINTS LOAD LIMITING  
EQUIPMENT**

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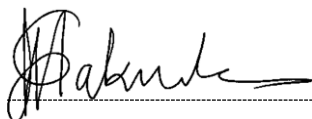
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## Content

	Page
1. Introduction .....	3
2. Supporting clauses .....	3
2.1 Scope .....	3
2.2 Normative references .....	3
3. Technical Returnable for RFQ .....	3
4. Technical Evaluation .....	4
4.1 Phase I: Mandatory Requirements .....	5
4.2 Phase II: Technical requirements .....	5
4.3 Phase III: Demonstration .....	5
5. Authorization .....	6
6. Revisions .....	6
7. Development team .....	6
8. Acknowledgements .....	6
Annex A – Technical evaluation process .....	7

## Tables

Table 1: List of items for enquiry .....	3
Table 2: Mandatory Requirements .....	5
Table 3: Technical Requirements scoring .....	5
Table 4: Scoring of items in Technical Requirements Sheet .....	5

## 1. Introduction

This document provides an overview of Eskom's technical requirements for the Request for Quotation (RFQ) for bulk load limiting equipment that is supplied as a combination of both the Bulk Load Control Interface (BLCI) and Bulk Load Control Equipment (BLCE) as listed in Table 1, below. It is supplementary to the Eskom standard for a bulk metered points load controller, i.e., Eskom 240-170001198 - Bulk metered points load controller standard.

In addition, this document defines the technical evaluation criteria, along with the technical schedules A and B (defined in the Excel spreadsheet and not this document) that will be used to evaluate the enquiry for bulk load limiting equipment.

## 2. Supporting clauses

### 2.1 Scope

This document provides information relating to an enquiry for the evaluation, testing, acceptance, and supply of bulk load limiting equipment to be utilized in Eskom as specified in 240-170001198.

The tender is for the manufacturing and supply of the following smart metering systems components:

**Table 1: List of items for enquiry**

Item	Items
1.	BULK LOAD LIMITER, 100kVA (BLCI and BLCE combo)
2.	BULK LOAD LIMITER, 200kVA (BLCI and BLCE combo)
3.	BULK LOAD LIMITER, 315kVA (BLCI and BLCE combo)
4.	BULK LOAD LIMITER, 500kVA (BLCI and BLCE combo)

Supplier may tender for one item, or all the items listed above, taking into consideration that all items shall be supplied with associated Customer Interface Units (CIUs) and modems.

Successful tenderers at the end of the complete evaluation (on contract award for production phase) shall be required to provide the necessary type test certificates for the field equipment, and training material as well as providing ongoing product training and support.

### 2.2 Normative references

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

- [1] Eskom 240-170001198, *Bulk metered points load controller standard*.
- [2] Eskom 240-170001064, *Governance Rules and Processes for Managing the Technically Evaluated and Accepted Products (TEAP) Database in Eskom Distribution*

## 3. Technical Returnable for RFQ

Suppliers shall provide the following information:

- 1) All submissions and/or documents required for compliance with mandatory requirements outlined in section 4.1 of this document.
- 2) Excel files (mandatory requirements and technical requirements sheet) shall be returned to Eskom in Excel format (electronic) and in addition, converted to Acrobat PDF format for auditing purposes (named "Technical Schedule for Bulk Load Limit Solution")

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- 3) Details regarding the make and model numbers of all items offered and auxiliary components.
  - 4) Data sheets, brochures and detailed product manuals for all components offered.
  - 5) Kiosk mechanical and electrical drawings and data sheets for BLCE detailing among others the breaker size (where used), type of steel, etc.
  - 6) List of DLMS/COSEM objects implemented in the BLCI.

## **4. Technical Evaluation**

This section details the methodology to be employed by Eskom in scoring the Technical Evaluation Phase. The Technical Evaluation is made up of the following phases:

### **Phase I: Mandatory Requirements**

### **Phase II: Technical requirements**

### **Phase III: Demonstration**

The evaluation process to be followed is given below, a) to k), and illustrated in the flowchart diagram given in Annex A.

- a) Eskom will compile technical requirements and RFX Documents taking into consideration the TEAP process as per 240-170001064 and proceed to issue RFX to the market.
- b) On the prescribed closing date, Eskom will receive bids from suppliers responding to the RFX.
- c) After receiving the bids, the mandatory requirements phase of the evaluation process will be conducted.
- d) Where a product does not meet mandatory requirements, the product will not be evaluated further. The final feedback report for such a product will be compiled accordingly.
- e) Submissions that fully comply with the mandatory requirements (Phase I) will be subjected to the functional evaluation (Phase II).
- f) If a product does not meet the functional evaluation threshold, a report will be compiled, and the supplier will be given feedback for the supplier to correct or develop all functionally non-compliant aspects of their products and resubmit the product within **3 months**.
- g) During the development period, the supplier will be required to demonstrate to Eskom that use cases that were outstanding have been implemented before the resubmitting the products for final evaluation. During this session, the supplier shall provide all DMLS traces of the use cases for Eskom to give inputs and guidance in cases where some use cases are not yet fully developed. This session will take place anytime as and when the supplier is ready provided it is still within the specified 3 months development phase as stated in 4 (f).
- h) If the product meets the functional evaluation threshold, the product will be subjected to Phase III of the evaluation where a visual inspection of the product will be conducted, and the product is demonstrated.
- i) If the product meets the demonstration evaluation threshold, the product will be listed on the TEAP Database on condition that all applicable certificates and type test reports stated in 240-170001198 are submitted.
- j) Where a product is resubmitted [see f) above] and meets the functional evaluation threshold, such a product shall be listed on the TEAP Database that all applicable certificates and type test reports stated in 240-170001198 are submitted.
- k) Where the supplier has implemented a firmware change on a product such that the product requires re-certification from the relevant certification bodies, the supplier will be given 6 months to provide such certificates if the products is recommended for TEAP listing and contract award.

While the product that have gone through this process should seamlessly integrate with existing HES's, contracted suppliers or TEAP listed supplier will be allowed a further 2 months to integrate their products with exiting HES's.

## 4.1 Phase I: Mandatory Requirements

Each tender shall pass all Mandatory Requirements of technical evaluation. Tenderers not meeting any of the Mandatory Requirements shall be excluded from further evaluation.

**Table 2: Mandatory Requirements**

Mandatory Requirements		Evidence required
1.	Excel files (mandatory requirements and functional evaluation sheet) are completed – Technical Schedule for Bulk Load Limit Solution.	Completed sheet submitted
2.	Commitment and declaration to fully integrate field devices with Eskom approved HESs within 2 months of contract award.	Declaration on signed company letterhead.
3.	Detailed technical manuals provided.	Technical manuals
4.	Commitment and declaration to train Eskom employees on the operation and maintenance of the equipment supplied.	Declaration on signed company letterhead

The Mandatory Requirements above are included in the “Technical Schedule for Bulk Load Limit Solution” Excel document as a separate Tab/Sheet and should be completed by all tenderers.

## 4.2 Phase II: Technical requirements

The Functional Evaluation Phase shall be scored as follows:

**Table 3: Technical Requirements scoring**

Technical category	Weightings
Functional Evaluation	100
Total	100%
Minimum threshold for qualification	70%

The scoring of different use cases under the functional evaluation phase shall be as follows:

**Table 4: Scoring of items in Technical Requirements Sheet**

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

Where a supplier scores above 70% but not 100%, the suppliers shall be required to meet all use cases that were not met as part of a contractual agreement for supplying the equipment.

## 4.3 Phase III: Demonstration

The tenderers whose products meet the Phase II threshold shall be invited to demonstrate the functionality of their solutions. The demonstration may be conducted using the tenderer's own HES. The product demonstration will be scored by the Eskom technical team using the Technical Demonstration sheet. The threshold and scoring methodology stated in Table 3 and Table 4 herein shall also apply to the demonstration.

The visual inspection and demonstration of equipment shall be conducted in South Africa. Where a supplier does not have presence in South Africa, the supplier shall make arrangement for this phase of evaluation to be conducted in South Africa at the supplier.

## **5. Authorization**

This document has been seen and accepted by:

<b>Name and surname</b>	<b>Designation</b>
Aletta Mashao	Senior Manager: Technology and Engineering
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## **6. Revisions**

<b>Date</b>	<b>Rev</b>	<b>Compiler</b>	<b>Remarks</b>
April 2024	2	M E Makwarela	Added a supplier development phase to the evaluation process
February 2024	1	M E Makwarela	New document required for the issue of enquiry

## **7. Development team**

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

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## **8. Acknowledgements**

Not applicable.

## Annex A – Technical evaluation process

