



Technical Evaluation Strategy

RT&D

Title: **Domestic Load Data Collection
Professional Services - Tender
Technical Evaluation Criteria**

Unique Identifier:

Alternative Reference Number: **N/A**

Area of Applicability: **RT&D**

Documentation Type: **Strategy**

Revision:

Total Pages: **08**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED
DISCLOSURE**

Compiled by

Senior Advisor

Date: 01/10/2024

Supported by

Senior Technologist

Date: 2024/10/01

Authorised by

Middle Manager

Date: 02/10/2024

CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES	3
2.1 SCOPE	3
2.1.1 Purpose	3
2.1.2 Applicability	3
2.2 NORMATIVE/INFORMATIVE REFERENCES	3
2.2.1 Normative	3
2.2.2 Informative	4
2.3 DEFINITIONS	4
2.3.1 Classification	4
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES	4
2.6 PROCESS FOR MONITORING	4
2.7 RELATED/SUPPORTING DOCUMENTS	4
3. TENDER TECHNICAL EVALUATION STRATEGY	5
3.1 TECHNICAL EVALUATION THRESHOLD	5
3.2 MANDATORY TECHNICAL EVALUATION CRITERIA	5
3.3 QUALITATIVE TECHNICAL EVALUATION CRITERIA	5
4. AUTHORISATION	7
5. REVISIONS	7
6. DEVELOPMENT TEAM	7
7. ACKNOWLEDGEMENTS	8

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

1. INTRODUCTION

The Domestic Load Data Collection project has primarily gathered load data profiles and customer information of socio-demographics through surveys, so the process is both qualitative and quantitative. A significant amount of data has been gathered, although the circumstances around the customer are changing and the distribution infrastructure aging requiring further data gathering, the current load data suffices for beneficiation.

The data gathering and analysis has been done internally for the past decade, however, there is another portion that requires a significant amount of time and certain level of expertise and knowledge, this is the part of statistical analysis and development of tools or applications for load modelling and predictions. Historically there was a Distribution Technology for Pre-Electrification Tool (DT PET) which became obsolete overtime and was not upgraded to be a web-based tool even when initiatives were made to do so, that did not yield positive outcomes. Thus there is a need to review legacy tools relevant for Load Research with the aim of developing new tools and applications in order to enhance the design and planning of distribution networks.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the different aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) to complete the technical evaluation of Domestic Load Data Collection Professional Services.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document is applicable to the Domestic Load Data Collection Project.

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] 32-1034: Eskom Procurement Policy

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

2.2.2 Informative

2.3 DEFINITIONS

LOAD SUB-CLASS: A combination of load sub-class model and load growth attributes that describe a group of consumers who may be readily identified as a “type”, share similar load shape behaviour, in a range of consumption (scale) that is largely independent of the load shape.

LOAD RESEARCH: Load research means the collection of electricity usage data through a metering device associated with an end-use, a circuit, or a building. The metered data is used to better understand the characteristics of electric loads, the timing of their use, and the amount of electricity consumed by users. The data may be collected over a variety of time intervals, usually sixty (60) minutes or less.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
DT PET	Distribution Technology for Pre-Electrification Tool
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

Compiler	The document compiler is responsible for ensuring that this document is up-to-date and that this document is not a duplication of an existing documentation, regarding the document’s objectives and content.
Functional Responsibility	The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorisation.
Authoriser (Middle Manager)	The document authoriser is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives and requirements. He/she shall authorise the release and application of the document.
Lead Discipline Engineers	Provide input to the technical tender evaluation strategy and associated engineering activities.

2.6 PROCESS FOR MONITORING

The primary process for monitoring will be governed by Eskom Design Review Process

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted or point scored, but shall be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%.

3.2 MANDATORY TECHNICAL EVALUATION CRITERIA

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Tenderer submits a letter of confirmation about the understanding of the following standards: SANS 507-1:2019 and NRS 048	Tender Returnable: Letter confirming understanding of SANS 507-1:2019 and NRS 048	Criteria confirm need for data and data analysis to enhance the design and planning of distribution networks.

3.3 QUALITATIVE TECHNICAL EVALUATION CRITERIA

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Evaluation Criteria Sub Weighting Breakdown (%)
1.	Submit high level scope of work with schedule for deliverables	Technical specification and high level scope of work	20%	Submission of scope of work (20%) No scope of work (0%)
2.	Ability to develop software application and tools	Letter of commitment to	30%	Submitted commitment letter

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

		undertake this scope about the software development and provide list of resources to be allocated with skills and capabilities credentials (i.e. CVs, qualifications, training, etc.)		and supporting documentation (30%) No commitment letter or no supporting documentation (0%)
3.	The tenderer must have a track record of three completed projects as a minimum; for residential load data analysis, review and classification of load sub-classes, development and implementation of electrification and network distribution software tools.	Referral letters about work previously done	30%	Submitted ≥3 referral letters (30%) Submitted 2 referral letters (20%) Submitted 1 referral letters (10%) No referral letters (0%)
4.	Training and knowledge transfer	Commitment letter to train and transfer knowledge to RT&D personnel	10%	Full training and support plan (10%) No training and support plan (0%)
5.	Indicate software capabilities in terms of open source / interoperability	Technical specification of development tools to be used	10%	Submitted detailed work plan (10%) Submitted brief work plan (5%) Submitted no work plan (0%)

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Ronel Clarke	Middle Manager	

5. REVISIONS

Date	Rev.	Compiler	Remarks

6. DEVELOPMENT TEAM

All Technical Evaluation Team Members.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

7. ACKNOWLEDGEMENTS

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.