	Technical Evaluation Strategy	Engineering
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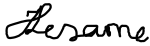


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1. INTRODUCTION

This document outlines the technical evaluation criteria and states how the tenderer to execute the scope of work for supply and deliver of three (3) LPG plates and one (1) Electric plate hybrid cooking stoves and LPG Heaters with 9KG LPG Cylinders x 2 and Supply, deliver and install ceiling insulation (SPF and Ceiling boards), electrical re-wiring and Asbestos removal for Air Quality Offset Phase 2 Project on and “as and when required basis” in settlements around Mpumalanga (Gert Sibande, Nkangala District Municipality and Emfuleni Local Municipality) for a period of not more than 24 Months.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document outlines the technical evaluation criteria and states how the tenderer to execute the scope of work for supply and deliver of three (3) LPG plates and one (1) Electric plate hybrid cooking stoves and LPG Heaters with 9KG LPG Cylinders x 2 and Supply, deliver and install ceiling insulation (SPF and Ceiling boards), electrical re-wiring and Asbestos removal for Air Quality Offset Project on and “as and when required basis” in settlements around Mpumalanga (Gert Sibande, Nkangala District Municipality and Emfuleni Local Municipality) for a period of not more than 24 Months. The evaluating team member listed and appointed in this document along with responsibilities.

The document also describes the acceptable and unacceptable risks and qualifications and/or conditions.

Once the Technical Evaluation Strategy is authorised, no changes will be made to the evaluation criteria without appropriate authorisation.

2.1.1 Purpose

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

2.1.2 Applicability

This document is applicable to the AQO Phase 2 Implementation Phase 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] 240-48929482: Tender Technical Evaluation Procedure
- [2] 32-1034: Eskom Procurement Policy
- [3] AQO Phase 2

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2.2.2 Informative

- [4] 240-53113685: Design Review Procedure
[5] 240-53114026: Project Engineering Change Management Procedure

2.3 DEFINITIONS

Definition	Description
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification

2.3.1 Disclosure Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
EDWL	Engineering Design Work Lead
LDE	Lead Discipline Engineer
N/A	Not Applicable
SoW	Scope of Works
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482, Tender Engineering Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD & METHOD

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted nor 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.

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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 minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the technical specifications. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

The evaluation strategy for Planning, Safety, Health and Environmental as well as Quality is not included in this document as it does not form part of the Engineering scope.

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements.

The scoring method will be as stipulated in Table 4.

3.2 TET MEMBER

The full-time core technical evaluation team will consist of the following team members (in-line with the Tender Engineering Evaluation Procedure, 240-48929482) in Table 1:

Table 1: TET Members

TET number	TET Member Name	Designation
1	Sakhy Mnguni	Engineer - Electrical Engineering Lead
2	Jan Strydom	Engineer – Low Pressure Services lead
3	Sibonelo Sibiya	Architect
4	Thapelo Lesame	Engineer – Civil and Structural Lead

The part time/support team member shall be required to fill in a technical evaluation form, if their names are marked as mandatory (X), next to a criterion.

3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

No	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Registration as an Electrical Contractor with Department of Labour	<i>"A certificate of registration as an Electrical Contractor from DoL"</i>	Legislative

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No	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
2.	Registration as an Electrician with Department of Labour	<i>“A CV and certificate of registration as a Three Phase Electrician”</i>	Legislative
3.	ECSA Registered Electrical Engineer or Technologist	<i>“A CV and certificate of registration as a Pr Electrical Engineer or Technologist”</i>	Legislative. (<i>Detailed Design is to be executed and approved by registered professionals</i>)
4.	Submit evidence of NHBRC registration	<i>NHBRC certificate</i>	Legislative

3.4 QUALITATIVE CRITERIA EVALUATION

During the tender evaluations, the following Table 3 shall be used by the TET members to score each criterion:

Table 3: Qualitative Evaluation Criteria Scoring Table

SCORE	PERCENTAGE	DESCRIPTION
5	100	COMPLIANT <ul style="list-style-type: none"> Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS <ul style="list-style-type: none"> Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR; Acceptable conditions.
2	40	NON-COMPLIANT <ul style="list-style-type: none"> Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE

Note 1: The scoring table does not allow for scoring of 1 and 3

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3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Electrical Installation			30	
	1.1	Preliminary Method Statement for execution of the works including Design/ erection/ installation/ test/ commission – how will the expected work be performed	<p>Preliminary method statement for execution of the works including construction/ sequence of erection; The completeness and relevance to the scope will be assessed.</p> <p>Not submitted: 0 Completeness (less than 80%): 2 Completeness (80% or above): 4 Complete: 5</p>		45
	1.2	Proposed electrical installation staff allocation to the project (Organogram indicating all technical team members and their roles for design and installation).	<p>Not submitted: 0 Completeness (less than 80%): 2 Completeness (80% or above): 4 Complete: 5</p>		15
	1.3	CV's and qualifications of all personnel three years' experience.	<p>Not submitted: 0 1 years: 2 2 years: 4 3 years: 5</p>		20
	1.4	Track record showing at least three completed relevant electrical installation	<p>Not submitted: 0 Completed one: 2 Completed two: 4 Completed three: 5</p>		20
2.	Architectural and Civil			40	

	2.1	Organogram indicating all technical team members and their roles	Not submitted: 0 Completeness (less than 80%): 2 Completeness (80% or above): 4 Complete: 5		15
	2.2	Submit evidence of experience in similar projects (including certification of working with asbestos or provision of a suitable sub-contract certified to work with asbestos) with 5 or more years' experience getting the highest score, provide testimonial certificates or completion certificates for at least 3 completed projects similar to the SoW. The testimonial or completion certificates shall consist of name of company where project was executed, project description, construction period and reference (contact person).	Not submitted: 0 Less than 5 years' experience with two similar projects completed: 2 Less than 5 years' experience with three similar projects completed: 4 More than 5 years' experience with three similar projects completed: 5		85
3	Gas appliances			30	
	3.1	Roll-about heaters	Documentation from the roll-about heater supplier indicating the make and model of the roll about heaters and that the roll-about heaters conform to the following: <ul style="list-style-type: none"> • Comply to SANS 1539. • Suitable for use with 9kg LPG cylinder. • Heat input between 4 kW and 4.5 kW • Three (3) Ceramic Panels • Three (3) different heat settings. • Fitted with built in manual ignition device. 		40

			<ul style="list-style-type: none"> • Flame failure protection mechanism during operation. • Flame cut-out when the heater is tilted. • Regulator complying to SANS 1237 • Flexible hose complying to SANS 1156-2. • Dimensions <ul style="list-style-type: none"> • Total height (Ht) not exceeding 800 mm, • Width (W) not exceeding 500 mm, • Depth (D) not exceeding 450 mm. 		
	3.2	Hybrid stove	<p>Documentation from hybrid stove supplier indicating the make and model of the hybrid stoves and that the hybrid stoves conform to the following:</p> <ul style="list-style-type: none"> • Comply to SANS 1539. • Comply to VC 8055 from the National Regulator of Compulsory Specifications (NRCS) • Suitable for use with standalone 9kg LPG cylinder. • Fitted with 3 gas burners and one electrical plate with 		40

			<p>independent variable temperature control knobs for the gas burners and electrical plate.</p> <ul style="list-style-type: none">• Integrated electrical oven with its variable control knobs (i.e. Grill and Bake functions)• Storage/Utility compartment.• Large standard dimension electrical plate, solid or spiral continuous top, with maximum output rating not exceeding 2 kW.• Electrical functions compatible to the South African electrical network (50Hz and 230V).• Plug-in cable compatible to South African electrical plugs.• Electronic Burner Ignition• The maximum operating temperature of the integrated oven does not exceed 250°C, with grill and bake functionalities as standard.• Regulator complying to SANS 1237• Flexible hose complying to SANS 1156-2.		
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			<ul style="list-style-type: none"> • The stove with an integrated oven dimensions are as follows: <ul style="list-style-type: none"> • Total height (Ht) not exceeding 1200 mm, • Floor to cooking level height (Hfc) not exceeding 950 mm, • Width (W) not exceeding 500 mm and, • Depth (D) not exceeding 650 mm. • Electrical plate's diameter (d) to be large standard dimension • The LPG plates' diameter (d) to be a combination of large and small standard dimensions. • The integrated oven volume not smaller than 57 Litres. 		
	3.3	9 KG LPG CYLINDER	Documentation from supplier indicating that the LPG Cylinders conform to SANS 10019 Confirmation from a minimum of 2 local LPG retailers that the cylinders are acceptable for exchange		20

3.5.1 TET Member Responsibilities

Key: X = Mandatory;

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X			
2	X			
3	X			
4			X	X
Qualitative Criteria Number				
1.1	X			
1.2	X			
1.3	X			
1.4	X			
2.1			X	X
2.2			X	X
3.1		X		
3.2		X		
3.3		X		

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

It is anticipated that various risks, exceptions and conditions will be identified during the clarification and negotiation process. Each of those will be considered and evaluated individually to determine whether they are acceptable, unacceptable or whether suitable mitigation measures can be agreed upon.

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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Thapelo Lesame	Engineer – Civil Engineering Lead
Jan Strydom	Engineer – Low Pressure Services Lead
Sakhy Mnguni	Engineer – Electrical Engineering Lead
Sibonelo Sibiya	Architect

5. REVISIONS

Date	Rev.	Compiler	Remarks
August 2022	0.1	Thapelo Lesame	1 st draft
August 2022	1.0	Thapelo Lesame	Final document

6. DEVELOPMENT TEAM

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

- Sakhy Mnguni
- Thapelo Lesame
- Sibonelo Sibiya
- Jan Strydom

7. ACKNOWLEDGEMENTS

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