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CONTROLLED DISCLOSURE

1. INTRODUCTION

Tutuka Power Station is one of the older fleets of Eskom power generating assets, with six (6) units that each have an installed capacity of 609 MWs. It is located near a town of Standerton in the Gert Sibande District in Mpumalanga. The boilers are using the En-Massa chain conveyor type of technology for the dust handling plant. The store always would have DHP chains, pins, rings and master links in the Main store. The spares are manufactured at the Original Specifications and manufacturing drawings. The dust handling plant is a critical plant and the plant need to be in continuous operation from Unit Outage to Unit outage. It will ensure empty hoppers and low dust emissions. In case of conveyor and bucket elevator breakage, it can be repaired in a short duration with spares availability in the stores.

This Tender Technical Evaluation Strategy (TTES) entails the technical specification and methodology on how the tenderers in relation to the chains, with its components supply of strategic key Dust Handling Plant equipment and components, will be evaluated as entailed in the Stores requests for new chains as per the PR numbers. The stock numbers are 217685 for the transfer conveyor chain and 39413 for the hopper conveyor chains. The PR numbers are 1075127503, 1074767295, 1075176898, 1075091433, 1075176890 and 1074767224. The Supplier need to supply and deliver 960 meters of transfer conveyor chain and 400 meters of hopper conveyor chain. The stock number for the bucket elevator chain is 37515 and the PR numbers are 1075284128, 1075300757, 1074918529 and 1074934788. The Supplier need to supply and deliver 516 meters of bucket elevator chain. Note that every 19th link, should be a master link.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope in this Tender Technical Evaluation Strategy (TTES) will be inclusive of manufacturing, inspection, testing and delivery of new chains, pins, locking collars, elastic pins and master links associated with the Dust Handling Plant. The Supplier is to manufacture all the dust handling chains and its components as per the original specifications and manufacturing drawings as per the Supplier's design. The Supplier to is deliver these chains with its pins, rings and master links with-in six to ten weeks at the stores. The Supplier need to supply and deliver 960 meters of transfer conveyor chain as per stock number 217685 and to supply and deliver 400 meters of hopper conveyor chain as per stock number 39413. The stock number for the bucket elevator chain is 37515 and the PR numbers are 1075284128, 1075300757, 1074918529 and 1074934788. The Supplier need to supply and deliver 516 meters of bucket elevator chain. Note that every 19th link, should be a master link.

Important to note that the project scope entails, supply and delivery of chains. Implied, the Supplier *shall* be responsible for providing the following returnable but not limited to:

- BOQ and BOM: The Quantity Surveying (QS) Report from the contractor(s) *shall* be issued to Eskom, and Eskom reserves the right to share these with a Third-Party QS for negotiation for fair market rates (price comparison).

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- Procurement: The contractor(s) *shall* ensure that all the planning of the procurement of equipment, components, spares, and long lead items are secured and are in-line with the national treasury guidelines ^{[8][9][10]}.
- FAT: The contractor(s) *shall* ensure that all critical key components/equipments are factory acceptance tested according to the applicable international/local codes and standards before they get to site and issue their certificates. An Eskom representative *shall* be present during the FATs. Where applicable for key equipment and components.
- Deliver and offloading of these chains in the Main Store as per Main Store working hours..

The abovementioned SOWs returnables will be part of the Tender Evaluation Criteria (TEC) that will form the basis that will be used to test the competency of the bidders and suitability to execute the works.

2.1.1 Purpose

The purpose of this TTES is to define the Quantitative Evaluation Criteria, Qualitative Evaluation Criteria and TTET member responsibilities for tender technical evaluation. The Technical Evaluation Strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to the Tutuka Power Station Dust Handling Plant chains supply Scope of Work TTET for Tutuka Power Station, and supply chain enquiries.

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] 240-48929482, Tender Technical Evaluation Procedure.
- [3] 240-503176699, Manage Technical Queries Procedure.
- [4] 240-53114186, Document and Records Management.
- [5] 240-62196227, Life Safety Rules.
- [6] 240-48929484, Verification and Validation Guideline (Basic).
- [7] 32-630, Guideline for Commissioning Procedure Requirements.
- [8] No. 11403, Vol. 681, 10 March 2022, Government Gazette, NO.R.1851, Publication of Draft Preferential Procurement Regulations, 2022 for Public Comment.
- [9] Supply Chain Management Office, Practice Note Number SCM 3 of 2003.
- [10] No. 25767, 5 December 2003, Government Gazette, National Treasury – Framework for Supply Chain Management, Section 76(4)(c) of the PFMA.

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- [11] No.36529, Vol. 576, 3 June 2013, Government Gazette, Guideline for Services and Processes for Estimating Fees for Persons Registered in terms of the Engineering Professional Act, 2000, (Act No.46 of 2000).
- [12] No. 40691, Government Gazette, 17 March 2017, Board Notice 41 of 2017, Code of Conduct for Registered Persons: Engineering Profession Act, 2000 (Act No. 46 of 2000).
- [13] SANS-10400, The South African National Building Regulations
- [14] Occupational Health and Safety Act, Act 85 of 1985.

2.2.2 Informative

- [15] 240-44682850: Process Control Manual (PCM) for Provide Engineering during Project Sourcing.
- [16] 240-53716726: Tender Technical Evaluation Scoring Form Template.

2.3 DEFINITIONS

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
AHP	Ash Handling Plant
BOM	Bill of Materials
BOQ	Bill of Quantities
BU	Business Unit
C&I	Control and Instrumentation
CIDB	Construction Industry Development Board
DHP	Dust Handling Plant
ECSA	Engineering Council of South Africa
FAT	Factory Acceptance Testing
ISO	International Organization for Standards
MW	Mega-watt
NEC	New Engineering Contract
OEM	Original Equipment Manufacturer
PrEng	Professional Engineer
PrTech	Professional Technologist
QS	Quantity Surveyor
SANS	South African National Standards
SoW	Scope of Work

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Abbreviation	Description
QCP	Quality Control Plan
QS	Quantity Surveyor
TET	Technical Evaluation Team
V&V	Verification and Validation

2.5 ROLES AND RESPONSIBILITIES

The Technical Evaluation Team (TET) will be responsible for setting up the technical evaluation criteria and evaluating the bidding candidates' submissions. The TET will perform their duty as prescribed and dictated by the guidelines of the Eskom's Tender Evaluation Procedure ^[2] with the intent of appointing a competent contractor to execute the works.

Below are some of the key roles and responsibilities as prescribed in the Tender Technical Evaluation Procedure^[2]:

- **Engineering Manager:** All Engineering Managers throughout Eskom shall ensure that all staff, in their respective areas understand and adhere to this procedure.
- **Technical Evaluation Team (TET):** The delegated engineers/technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy.

2.6 PROCESS FOR MONITORING

The TET will perform their evaluations and provide their recommendations as per the Eskom's Tender Evaluation Procedure ^[2]. Eskom specialists be appointed to supervise and provide oversight to ensure it follows the appropriate procedural process.

2.7 RELATED/SUPPORTING DOCUMENTS

[17] Not applicable.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION METHOD^{[1][2][3][4][6][7][15][16]}

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the requirements. Tenderers need to have a weighted score of 70% overall or above to technically qualify for further evaluation. The technical criteria and weighting is broken down as follows:

1. Technical: 100%

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements. The scoring method will be as shown below:

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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 & PROFESSIONAL BODIES <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
<p>Note 1: The scoring table does not allow for scoring of 1 and 3.</p> <p>Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p>		

The evaluation scores will be weighted as follows according to disciplines:

Technical (100%)	
Demonstrate technical capacity to execute SoW of similar scope	50%
Demonstrate technical competency to execute the <i>works</i>	50%
Project Management (0%)	
TOTAL (100%)	
Overall minimum threshold for qualification (70%)	

3.2 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%. With the following mandatory gatekeepers as set out below and failure to meet all of them automatically will lead to disqualification.

3.3 MANDATORY GATEKEEPERS

This section will not be applicable for this Chain Supply Order, there are **NO** mandatory gatekeepers for this tender inquiry.

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3.4 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Egard Janse van Rensburg	Senior Technologist, Auxiliary Department, Tutuka Power Station
TET 2	Israel Phidane	Mechanical Section Manager, Tutuka Power Station
TET 3	Lindokuhle Langa	Boiler Auxiliaries Supervisor, Tutuka Power Station

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3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Below is the Qualitative Technical Evaluation Criteria that will be used for the chain manufacturing to evaluate the bidders for the Tutuka Power Station Chain Supply Scope of Work:

Table 2: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)		Criteria Sub Weighting (%)
1.	Demonstrate technical capacity to execute SoW of similar scope relating to Chain Manufacturing and Supply.		50%		100%
	Statement of the scope including the following:				
1.1	Company profile relating to conveyor chain manufacturing and bucket elevator chain manufacturing.	This includes the following returnable: - Submission of company profile - Company letterhead - and/or website - and/or head office (latest municipal bill)	Returnable submitted 4	5	10%
			Returnable submitted 3	4	
			Returnable submitted 2	2	
			No submission	0	
1.2	The annual production rate in meters of the similar conveyor chains to various clients.	It is to determine if the Company can supply chains at high volumes. The Company need to submit proof of these deliveries to various clients.	More than 5000 meters	5	20%
			From 3000 meters to 5000 meters	4	
			From 500 to 2900 meters	2	
			No Submission	0	

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	1.3	The annual production rate in meters of the similar bucket elevator chains to various clients.	It is to determine if the Company can supply bucket elevator chains at high volumes. The Company need to submit proof of these deliveries to various clients.	More than 5000 meters	5	20%	
					From 3000 meters to 5000 meters		4
					From 500 to 2900 meters		2
					No Submission		0
2.	Demonstrate technical competency to execute the <i>works</i>			50%			
		Statement of the scope including the following:					
	2.1	Provide method statement on the conveyor chain manufacturing process.	<p>This includes the following returnable:</p> <ul style="list-style-type: none"> - Welding accreditations - Weld inspection certificates - Describe how the chain/ components would be manufactured - Provide chain assembly procedures - Describe the hardness testing procedures of the links - Provide the QCPs templates - Reference applicable codes and standards, local and international. 	All seven returnable submitted	5	20%	
					Five of the seven returnable submitted		4
					Three and less returnable submitted		2
					No submission		0

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	2.2	Provide method statement on the bucket elevator chain manufacturing process.	<p>This includes the following returnable:</p> <ul style="list-style-type: none"> - Describe how the chain/ components would be manufactured - Provide chain assembly procedures - Describe the hardness testing procedures of the links - Provide the QCPs templates - Reference applicable codes and standards, local and international. 	All six returnable submitted	5	20%
				Four of the six returnable submitted	4	
				Three and less returnable submitted	2	
				No submission	0	
	2.3	Provide method statement on the pull-out tests of conveyor chain and bucket elevator chain links.	<p>This includes the following returnable:</p> <p><u>Pull Out Testing Methodology</u></p> <ul style="list-style-type: none"> - Describe how the conveyor chains and bucket elevator chains links strength test would be done. - Does the Company has the equipment to do such chain strength tests? (Pull-out tests) - Does the Company need to use a third party to do such pull-out tests? 	All returnable submitted and Company can do these tests at his/her own premises.	5	10%
				All returnable submitted and Company need to use a third party to do these tests	4	
				Not all returnable submitted and/or method statement does not meet the requirements	2	
				No submission	0	

3.6 TET MEMBER RESPONSIBILITIES

On the Table below are the TET member responsibilities based on the Qualitative Technical Evaluation Criteria:

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5
N/A	N/A	N/A	N/A	N/A	N/A
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5
1.					
1.1	X	X	X		
1.2	X	X	X		
1.3	X	X	X		
2.					
2.1	X	X	X		
2.2	X	X	X		
2.3	X	X	X		

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 4: Acceptable Technical Risks

Risk	Description
1.	Supply of chain to other Clients.
2.	
3.	
4.	
5.	
6.	
7.	

Table 5: Unacceptable Technical Risks

Risk	Description
1.	If the Chain Supplier is only a distributor.
2.	
3.	
4.	
5.	
6.	
7.	

3.7.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A
1.	
2.	
3.	
4.	
5.	
6.	

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A
2.	
3.	
4.	
5.	
6.	
7.	

4. AUTHORISATION

This document has been seen and accepted by:

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5. REVISIONS

Date	Rev.	Compiler	Remarks
07 March 2023	1.0	E van Rensburg	Draft document for comment

6. DEVELOPMENT TEAM

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

- Egard Janse van Rensburg

7. ACKNOWLEDGEMENTS

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