

## Strategy

## **Engineering**

Title:	Tender Technical Evaluation
	Strategy for Scope of Work for Belt
	Splicing and Pulley lagging Repair

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## 1. Introduction

Grootvlei Power Station coal handling plant uses conveyor belts to transport coal from the coal stockyard to the mill bunkers, where the coal is further conveyed to the milling plant for further processing. There are two types of conveyor belts used which are steel Cord and Textile/Plied Reinforced Conveyor Belt. The belts get torn or damaged for various technical reasons. The repair of conveyor belts requires either full replacement or putting an insert depending on the extent of damage and the condition of the existing conveyor belt.

The station has invited tenderers that could assist in carrying out the scope for conveyor belts splicing, pulley repairs and inspections to be conducted by the contractor as and when required as stipulated on scope of work Reference: GVL- 0625. This strategy spell-out the requirement that the tenderers must comply with to be considered for carrying out the scope of work.

## 2. Supporting Clauses

## 2.1 Scope

This document covers the different aspects that will be evaluated and scored by the Technical Evaluation Team (TET) to evaluate tenderers for the splicing and repair of both steel cord, plied fabric conveyor belts, pulley lagging and inspections as and when required. The team members are listed and appointed in this document along with their 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 technical evaluation strategy serves as basis for the tender technical evaluation process.

## 2.1.2 Applicability

This document applies to Grootvlei Power Station only

#### 2.1.3 Effective date

N/A

## 2.2 Normative/Informative References

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

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#### 2.2.1 Normative

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] 240-168966153 Generation Technical Tender Evaluation Procedure (Rev 1)
- [3] ISO 9001 Quality Management Systems.
- [4] 240-48929482: Tender Technical Evaluation Procedure
- [5] 32-1034: Eskom Procurement Policy
- [6] 240-120532564 Splicing and Repairs of Steel Cord and Textile/Plied Reinforced Conveyor Belting
- [7] SANS 1366:2013: Steel cord Reinforced Conveyor Belting.
- [8] SANS 1173:2013: Fabric Reinforced Conveyor Belting.
- [9] SANS 485:2009 Edition 1: Conveyor Belting Splicing of steelcord conveyor belting.
- [10] SANS 484-1:2009 Edition 1: Conveyor Belting Step splicing for multiply textile reinforced rubber covered conveyor belting Hot- splicing method.

## 2.2.2 Informative

- [11] 32-1033: Eskom Procurement and Supply Chain Management Policy
- [12] 32-1034: Eskom Procurement and Supply Management Procedure
- [13] Occupational Health and Safety (OHS) Act No. 85 of 1993, Regulation 18 of the Driven Machinery Regulations.

#### 2.3 Definitions

Definition	Explanation
Contractor/Tenderer	Refers to the company/supplier appointed to perform the works
Employer	Refers to Eskom Holdings State Owned Company
The Client	The end user will be Eskom who will be represented by Grootvlei Power Station throughout the duration of the works.

#### 2.3.1 Classification

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

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#### 2.4 Abbreviations

Abbreviation	Explanation
TET	Technical Evaluation Team
OHS	Occupational Health and Safety (OHS) Act

## 2.5 Roles and Responsibilities

As per Tender Technical Evaluation Procedure [1].

## 2.6 Process for Monitoring

N/A

## 2.7 Related/Supporting Documents

GVL 0625 Scope of work Grootvlei PS for belt splicing and pulley lagging repair

## 3. TENDER TECHNICAL EVALUATION STRATEGY

#### 3.1 Technical Evaluation Method

The basic steps for a technical evaluation must be followed as per the Tender Technical Evaluation Procedure [1].

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 evaluation of the tender submission will be based on the tenderer's ability to meet the technical requirements for the work. A weighted scorecard approach is used to evaluate the technical compliance of the tenders against the scope of work.

The scoring method will be as follows:

SCORE	PERCENTAGE	DESCRIPTION							
5	100	Meet technical requirement(s) AND;							
		<ul> <li>Meet technical requirement(s) AND;</li> <li>No foreseen technical risk(s) in meeting technical requirements.</li> </ul>							
4	80	<ul> <li>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</li> <li>Meet technical requirement(s) with;</li> <li>Acceptable technical risk(s) AND/OR;</li> <li>Acceptable exceptions AND/OR;</li> </ul>							

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		Acceptable conditions.						
2	40	NON-COMPLIANT						
		<ul> <li>Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR;</li> </ul>						
		<ul> <li>Unacceptable exceptions AND/OR;</li> </ul>						
		<ul> <li>Unacceptable conditions.</li> </ul>						
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE						

The evaluation scores will be weighted as follows:

Evaluation scores (100%)					
PERSONEL QUALIFICATIONS	20%				
EXPERIENCE AND COMPETENCY	20%				
QUALITY ASSURANCE	20%				
PROCEDURE	40%				
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%.

#### 3.3 ET Members

**Table 1: TET Members** 

TET number	TET Member Name	Designation
TET 1		Grootvlei PS Auxiliary Systems Engineer
TET 2		Auxiliary Plant Senior Maintenance Supervisor
TET 3		Auxiliary Plant Senior Maintenance Supervisor

**Table 2: Mandatory Technical Evaluation Criteria** 

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	tion for use of Criteria
1	Mandatory tools to ensure successful quality splicing	I SUDDIV Valid calibration certificates of	A mandatory equipment for any company to be able to splice conveyor belts and ensure that quality work is done.

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Thermocouple gauges – Calibration certificate  Data pack of press to be used	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	tion for use of Criteria
(Platens to be 100 mm wider than the width of the belt, Max belt width is 1350 mm wide) – Temperature stability  Pressure gauges – Calibration certificate  Thermostat – Calibration certificate  Rubber hardness meter – Calibration certificate		Thermocouple gauges – Calibration certificate  Data pack of press to be used (Platens to be 100 mm wider than the width of the belt, Max belt width is 1350 mm wide) – Temperature stability  Pressure gauges – Calibration certificate  Thermostat – Calibration certificate  Rubber hardness meter – Calibration	

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## **Qualitative Technical Evaluation Criteria**

## Table 2: Qualitative Technical Evaluation Criteria – Personnel Qualifications

	Qualitative Technical Criteria Description							
	Qualitative	Reference to Technical	Silicina Si		Evaluation Scoring Breakdown			
	Technical Criteria Description	Specification / Tender Returnable	Weighting (%)	Weighting (%)	0	2	4	5
1	PERSONEL QUALIFICATIONS		20					
	1.1 Contractor Supervisor: Supervisor to demonstrate experience (at least 3 years) and competency in conveyor belt splicing	<ul> <li>Conveyor Belt Splicing Training/Competency Certificate</li> <li>HIRA certificate</li> <li>Curriculum Vitae (With references) stating the numbers of years worked as a supervisor and employee.</li> </ul>		50	Three (3) or more Returnables Not Submitted = Splicing Training/ Competency Certificate  AND  HIRA Certificate  AND  CV (With references) with < 3 years' experience  or	Two (2) Returnable Not Submitted = Splicing Training/ Competency Certificate  AND  HIRA Certificate  OR  HIRA Certificate  AND  CV (With references) < 3 years' experience	One (1) Returnable Not Submitted = Splicing Training/ Competency Certificate  OR HIRA Certificate  OR  CV (With references) with < 3 years' experience	All returnable submitted = Splicing Training/ Competency Certificate  AND HIRA Certificate  AND  CV (With references) With ≥ 3 years' experience

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		Qual	litative Tech	nnical Criteria Des	scription		
Qualitative	Reference to Technical	Criteria	Criteria Sub		Evaluation S	Scoring Breakdown	
Fechnical Criteria Description Specification / Tender Returnable (%)	Weighting (%)	Weighting (%)	0	2	4	5	
			50		OR  CV (With references) < 3 years' experience  AND  Splicing Training/ Competency Certificate		
Splice men (x3): • Splice men to demonstrate experience (at least 3 years) and competency in conveyor belt splicing	Conveyor Belt Splicing Training/Competency Certificate (x3)  Curriculum Vitae (With references) stating the numbers of years worked as a supervisor and employee. (x3)		50	Two (2) or more Returnables Not Submitted = Splicing Training/ Competency Certificate AND	One (1) Returnables Not Submitted  = Splicing Training/ Competency Certificate OR	All returnables submitted = Splicing Training/ Competency Certificate AND	All returnables submitted = Splicing Training/ Competency Certificate AND
				CV (With references) < 3 years' experience or No evidence of		years' experience	3 years' experience

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Qualitative Technical Criteria Description												
Qualitative	Reference to Technical	Criteria	Criteria Sub	Evaluation Scoring Breakdown								
Technical Criteria Description	Specification / Tender Returnable	Weighting (%)	Weighting (%)	0	2	4	5					
				submission								

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Table 3: Qualitative Technical Evaluation Criteria - Company Experience

Qualitative Technical Criteria S		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Evaluation Scoring Breakdown				
1.2	COMPLANY EXPERIENCE		20		0	2	4	5	
	Experience and Competency (Steel cord):	Submit a list of verifiable list of references of conveyor belt splicing including:					30-49 splices	At least 50 splices	
	Contractor to demonstrate experience and specialization in Conveyor Belt Splicing	<ul> <li>Task Executed</li> <li>Client Name</li> <li>Date of Task Execution</li> <li>Contact Person and</li> </ul>		50	0-9 Splices	10-29 splices			
		References Contact Numbers  o Purchase Order Number							
		Purchase Orders from the list provided for Steelcord Conveyor Belt Splicing must be submitted for verification							

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Compe Contracto experien	ation in Conveyor cing	Submit a list of verifiable list of references of conveyor belt splicing including: Task Executed Client Name Date of Task Execution Contact Person and References Contacts Numbers Purchase Order Number  Purchase Orders from the list provided for Ply Conveyor Belt Splicing must	50	0-9 Splices	10-29 splices	30-49 splices	At least 50 splices
		be submitted for verification					

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Table 4: Qualitative Technical Evaluation Criteria – Quality Assurance

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	0	2	4	5
3	QUALITY ASSURANCE		20					
3.1	Guarantee of Services:	Signed Guarantee of Services letters by the contractor performing the splicing works:		10	Returnable	Returnable	Returnable	Returnable
	The Contractor shall guarantee his workmanship and materials for a minimum period of three	1 signed letter with company letterhead for plied fabric belt 1 signed letter with company			One/both of the guarantee	All guarantee letters was	All guarantee letters was	Guarantee Letter issued and met
	(3) years following the completion of the splice on the plied fabric belts.	letterhead for steelcord belt			letters was <b>NOT</b> issued	issued	issued	minimum 3 years for works
					OR	AND	AND	AND
	For steel cord belting there							
	shall be a one (1) year				Issued	Both of the	One (1) of	
	guarantee against visual				guarantee	issued	the	Guarantee
	evidence of oxidation/corrosion				letter	guarantees	issued	Letter issued
	of the steel cords.				duration less	duration	guarantees	
					than the minimum	less than the	duration less than	minimum 1 years for splicing

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	Qualitative Techni Descripti		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	0	2	4	5
						required terms for works AND splicing OR	minimum required terms for either the works and/or for splicing	the minimum required terms for either the works and/or for splicing	
						No documentary evidence of contractor's guarantee letters was submitted			
3	Calibration  Contractor to Rubber Shot Hardness To (Durometer Humidity M	ester ) and	Valid Calibration Certificates		10	No returnables	Returnables  = Submitted only one (1) of the two certificates  AND/OR One was	Returnable s = Submitted two (2) of the two certificates AND/OR	Returnables = Supplied both certificates AND Both valid

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Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	0	2	4	5
							invalid	
3.3	Quality Control Procedures/Plans previously used Contractor to provide Quality Control Plans previously used for steel cord belt meeting	QCPs for previous work completed  *QCPs to have Order numbers, Client Name and meet SANS 485:2009 Edition 1: Conveyor Belting - Splicing of Steelcord conveyor belting requirements		40	No QCPs submitted	2-3 QCPs	4-5 QCPs	More than 5 QCPs
3.4	Quality Control Procedures/Plans previously used Contractor to provide Quality Control Plans previously used for ply belt	QCPs for previous work completed  QCPs to have Order numbers, Client Name and meet SANS 484-1:2009 Edition 1: Conveyor Belting - Step splicing for multiply textile reinforced rubber covered conveyor belting - Hotsplicing method requirements		40	No QCPs submitted	2-3 QCPs	4-5QCPs	More than 5 QCPs

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## Table 5: Qualitative Technical Evaluation Criteria – Procedure

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	0	2	4	5
4	PROC	EDURE		40					
	4.1	Steel Cord Belt Splicing Procedure:  Contractor to compile a splicing procedure of the 1050 mm St1000 steel cord belt in accordance with SANS 485:2009 Edition 1: Conveyor Belting - Splicing of Steelcord conveyor belting.	Procedure in accordance with SANS standard including steps to be followed, consumables to be used Tools to be used Site preparations Determining splice geometry (Splice layout diagram with parameters, including QCP's) Splicing process and use of tools (Including preparation requirements before splicing the belt) Final Testing requirements		50	No information provided	Procedure covers all the steps but not detailed to successfully splice the belt.	Procedure covers all the steps but not detailed enough to ensure quality works	Procedure covers all the steps in detailed, in accordance with the SANS standard, steps, parameters, consumables are detailed

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Qua	alitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	0	2	4	5
4.3	Plied Fabric Belt Splicing Procedure: Contractor to compile a splicing procedure of the 900mm 4ply plied fabric belt in accordance with SANS 484-1:2009 Edition 1: Conveyor Belting - Step splicing for multiply textile reinforced rubber covered conveyor belting - Hot-splicing method.	Procedure in accordance with SANS standard including steps to be followed, consumables to be used  - Tools to be used - Site preparations - Determining splice geometry (Splice layout diagram with parameters, including QCP's) - Splicing process and use of tools (Including preparation requirements before splicing the belt) - Final Testing requirements		50	No information provided	Procedure covers all the steps but not detailed to successfully splice the belt.	Procedure covers all the steps but not detailed enough to ensure quality works	Procedure covers all the steps in detailed, in accordance with the SANS standard, steps, parameters, consumables are detailed

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# 3.4 TET Member Responsibilities

# **Table 6: TET Member Responsibilities**

Qualitative Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
2	Х	X	X
3	Х	Х	X
4	Х	Х	Х

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# 4. Acceptance

This document has been seen and accepted by:

Note: Initials not acceptable

Name	Designation	Signature
	Grootvlei PS Auxiliary Systems Engineer	
	Grootvlei PS Auxiliary Engineering Manager	
	Auxiliary Plant Senior Maintenance Supervisor	
	Auxiliary Plant Senior Maintenance Supervisor	
	Grootvlei PS Engineering Manager	

## 5. Revisions

Date	Rev.	Compiler	Remarks
March 2025	1		Document issued for the market
July 2025	2		Revision made after Adhoc squared check meeting

## 6. Development Team

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

•

## 7. Acknowledgements

None

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# Appendix A – Contractor's Relevant Experience

List of Completed Projects						
Project name	Description of work performed	Project start and end date	Name, designation and contact number of reference person			