

Title: **Tender Technical Evaluation
Strategy for Pulley Lagging, belt
splicing and clip joints**

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CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES	3
2.1 SCOPE	3
2.1.1 Purpose	5
2.1.2 Applicability	5
2.2 NORMATIVE/INFORMATIVE REFERENCES	6
2.2.1 Normative	6
2.2.2 Informative	6
2.3 DEFINITIONS	6
2.3.1 Classification	6
2.4 ABBREVIATIONS	6
2.5 ROLES AND RESPONSIBILITIES	6
2.6 PROCESS FOR MONITORING	7
2.7 RELATED/SUPPORTING DOCUMENTS	7
3. TENDER TECHNICAL EVALUATION STRATEGY	7
3.1 TECHNICAL EVALUATION THRESHOLD	7
3.2 TET MEMBERS	7
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	8
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	9
3.5 TET MEMBER RESPONSIBILITIES	12
3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	13
3.6.1 Risks	13
3.6.2 Exceptions / Conditions	14
4. AUTHORISATION	15
5. REVISIONS	15
6. DEVELOPMENT TEAM	15
7. ACKNOWLEDGEMENTS	15

TABLES

Table 1: TET Members	7
Table 2: Mandatory Technical Evaluation Criteria	8
Table 3: Qualitative Technical Evaluation Criteria	9
Table 4: TET Member Responsibilities	12
Table 5: Acceptable Technical Risks	13
Table 6: Unacceptable Technical Risks	13
Table 7: Acceptable Technical Exceptions / Conditions	14
Table 8: Unacceptable Technical Exceptions / Conditions	14

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1. INTRODUCTION

This document is for the tender technical evaluation strategy for Pulley Laggings, belt splicing and clip joints. The strategy will outline the scope of work, the tender technical evaluation criteria, and the procedure that will be followed to evaluate tenderers.

2. SUPPORTING CLAUSES

2.1 SCOPE

Hendrina Power Station receives coal from trucks and a linked mine via a series of conveyors from the mine premises which feed the station's over-staithes conveyors to discharge into the coal staithes for temporary storage. Coal supply to the mill bunkers is undertaken by using six (6) Incline conveyors, consisting of a set of three (3) conveyors per gantry located at the north and south side of the stations respectively. The Incline Conveyors feed into a common distribution chute which then splits the coal onto the receiving Mill Bunker Conveyors.

The main chute feeds the coal from the Incline Conveyors into the splitter box which then splits the coal to the Mill Bunker Conveyors. The dribble chute collects the scrapings from the return side of the Incline Conveyors where it is then discharged to the "A" stream of the Mill Bunker conveyors via the screw conveyor

The scope is Work to be performed on all Conveyor belts and Pulleys lagging at Hendrina Power Station.

The Contractor supplies all consumables, equipment, tools, labour and transport required when executing the work. (Unless otherwise instructed by the Employer's Representative). The contractor supplies sufficient equipment and personnel at all times to perform the work on planned or emergency breakdown situation

Belts include mine belts, Coal stock yard belts, under & upper staithes, Incline and Bunker belts 4A,4B,5A,5B,6A, 6B,7A,7B, 8A,8B,8C,8D,10A,10B,11A,11B,12A,12B,12C,12D,14A,14B,15A &15B, 17 & 18. 9A, 9B, 9C,
13A, 13B & 13C

Pulley lagging include Drive, Head, Tail, Snub, Bend and Take up pulleys on all the above-mentioned belts

- 1.1 Splicing
- 1.2 Installation of clip joints
- 1.3 Installation of complete belts
- 1.4 Installation of belt inserts
- 1.5 Pulley lagging
- 1.6 Response Time
- 1.7 Belt repairs
- 1.8 Quality requirements

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1.1 Belt Splicing

- Splicing is performed on both horizontal and inclines belts This includes the pulling in of the belt and installation of the belt clamps when required. The conveyor belting will be supplied by Eskom Holdings at no cost to the contractor
- Splicing is done according to Eskom STANDARD, SANS 484- 1.2009, SANS 484- 2'2009 for Cold and Hot Splicing The contractor is expected to submit a Quality Control Plant to be reviewed and agreed upon by the Employer's Representative before starting any work and must be approved by the system Engineer.
- Splicing includes release tension on the belt via the counterweights, clamping and pulling in of the belt and aligning the two overlapping ends which are to be spliced.
- On completion, the belt must be test run in the presence of the Employer's Representative and the Contractor to ensure that Coaling can continue and the Quality Control Plan to be signed off by both the Contractor and Eskom Holdings Limited representative
- The Contractor ensures that after completion of the work, the area must be cleaned, and all the loose material removed to ensure good housekeeping
- The contractor supplies personnel to perform the Works that have been trained, tested and authorised in terms of the Plant Safety Regulation as the Responsible Person. Training, testing and Authorization will be provided through the Employer's ETD department.
- The Contractor ensures that within 6 months of awarding the contract, the personnel are trained, tested and authorised in terms of Plant Safety Regulation.

1.2 Installation of Clip joints

- Installation of clip joints is performed on both horizontal and inclines belts This will include the pulling of the belt, installation of belt clamps when required Materials for clip joints are to be supplied by the Contractor
- Installation of clip joints must be done according to Eskom Standard SANS 484- 1.2009, SANS 484-2.2009. The Contractor is expected to submit a quality control plan to be reviewed and agreed upon by the Employer
- The installation starts by clamping the belt, pulling in the belt, aligning the belt and by means of the clip joint device, join the belt ends
- On completion, the belt must be test run in the presence of the Eskom Holdings Limited Quality Controller to ensure that the coaling can continue and the QCP to be signed off by both contractor and Employer's quality controller

1 3 Installation of belts inserts

- Installation of belt inserts is done according to Eskom Standard SANS 484-
- 1 2009, SANS 484-2'2009 The Contractor is expected to submit a quality control plan to be reviewed and agreed upon by Eskom.

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- When an insert is required, either splicing or installing a clip joint or both methods can be used, depending on Eskom Holdings Limited requirement. In all cases the Eskom Procedure must be used and the above mentioned QCP's to be signed off by both contractor and ESKOM HOLDINGS LIMITED Quality Controller
- On completion, the belt must be test run in the presence of the Eskom Holdings Limited Quality Controller to ensure that coaling can continue and the QCP's to be signed off by both contractor and ESKOM HOLDINGS LIMITED Quality Controller.
- Installation of insert must allow the enough slack on the belt to avoid belt slipping when loaded

1.4 Pulley Lagging

- Pulley lagging might be required on all pulleys in situ. Only rubber lagging and ceramic lagging will be required. The rubber to be used for lagging should have a shore hardness and pattern type of lagging to comply with section 4 2 3 of SANS 1669-2. 2008 " Conveyor belt pulleys- part2• Lagging
- The lagging starts by clamping 1), clean the contact surfaces,
- The lagging is flame retardant 4'2 2 of SANS 1669-2'2008.
- the belt, removes the old lagging (ISO 8501- apply the glue and install the new lagging and comply with specification as per section
- Inclined belts drive pulleys to be lagged with epoxy ceramic lagging and the other belts drive to be lagged with rubber backed ceramic lagging
- On completion, the belt is to be test run to ensure the coaling can continue

1.5 Response Time

- The period for execution of planned work is one (1) day. Contractor to be always available 24 hours a day with a maximum response time of two (2) hours from time of notification.
- Upon arrival to the Employer's premises, the Contractor will only be allowed the maximum of 1 (one) hour delay before activities are started.
- The constraints or delays in terms of Plant availability can be expected, due to operating production requirements When above mentioned work must be performed, Eskom Holdings Limited personnel are responsible to lift and gag the tension weights.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and Technical Evaluation Team (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 is applicable to Hendrina Power Station

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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] ISO 9001 Quality Management Systems

2.2.2 Informative

- [3] Occupational Health and Safety Act (OHSA) Act 85 of 1993

2.3 DEFINITIONS

N/A

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
TET	Technical Evaluation Team
ISO	International Organization for Standardization
N/A	Not Applicable
ROC	Required Operational Capability
ERA	Executive Release Approval
CV	Curriculum Vitae
SAQA	South African Qualification Authority
QIP/QCP	Quality Inspection Plan / Quality Control Plan
TBD	To Be Determined

2.5 ROLES AND RESPONSIBILITIES

N/A as per 240-48929482: Tender Technical Evaluation Procedure

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2.6 PROCESS FOR MONITORING

1. N/A

2.7 RELATED/SUPPORTING DOCUMENTS

1. N/A

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

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

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Banele Sibisi	System Engineer
TET 2	Thelma Tjabadi	Senior Supervisor
TET 3	Henry Matlala	Senior Technician

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

**Table 2: Mandatory Technical Evaluation
Criteria**

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	N/A		
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

		Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Scoring (%)
1		Proof of company experience on pulley lagging, belt splicing and clip joints	Provide proof of purchase orders or contract document.	Sub-weight: 20%	
	1.1	Proof submitted with zero (0) purchase order/contract		20	0
	1.2	Proof submitted with one (1) purchase order/contract			10
	1.3	Proof submitted with two (2) or more purchase orders/contract			20
2		Provide detailed methodology (Know how step by step) and equipment used to perform the following:	Method statement which includes Cold Splicing, Hot Splicing, Pulley Lagging, Installation of belt insert and belt repairs.	Sub-weight: 30%	
2.1		Cold Splicing / Hot Splicing			
	2.1.1	No method statement or a method statement that is not relevant to the scope and lack of technical details		10	0
	2.1.2	Method statement only has the technical know-how			5
	2.1.3	The method statement should be detailed know how and include all activities to complete each task as outlined by scope of work.			10

2.2		Belt Repairs /Insert		
	2.2.1	No method statement or a method statement that is not relevant to the scope and lack of technical details	10	0
	2.2.2	A method statement that has the technical know-how only		5
	2.2.3	The method statement should be detailed know how and include all activities to complete each task as outlined by scope of work.		10
2.3		Pulley Lagging		
	2.3.1	No method statement or a method statement that is not relevant to the scope and lack of technical details	10	0
	2.3.2	A method statement that has the technical know-how only		5
	2.3.3	The method statement should be detailed know how and include all activities to complete each task as outlined by scope of work.		10
3		Provide detailed Quality Control Plan (QCP) documentation must be submitted according to the scope	Quality Inspection Plan with intervention points	Sub-weight: 15%
	3.1 Cold Splicing / Hot Splicing			
	3.1.1	QCP/QIP that is not according to scope or does not have indication of intervention points	5	0
	3.1.2	Comprehensive QCP/QIP that is according to scope with intervention points such as hold, etc.		5
3.2		Belt Repairs/ Insert		
	3.2.1	QCP/QIP that is not according to scope or does not have indication of intervention points	5	0

	3.2.2	Comprehensive QCP/QIP that is according to scope with intervention points such as hold, etc.		5
3.3	Pulley Lagging			
	3.3.1	QCP/QIP that is not according to scope	5	0
	3.3.2	Comprehensive QCP/QIP that is according to scope with intervention points such as hold, etc.		5
4	Site Supervisor: CV and Qualifications, N6 Certificate in Engineering or Higher.	Provide recently certified qualifications copies valid within 6 months.	Sub-weight: 10%	
	4.1	Non- certified and valid copies will count as zero	10	0
	4.2	CV & N6 certificate in Engineering.		5
	4.3	CV & Diploma(N6) in Engineering		10
5	Key Personnel Qualifications and CV's. Indicate Experience on CV.	Provide a detailed CV and valid certified SAQA or equivalent qualification copies. Certificates should be valid for 6 months from date of tender submission.	Sub-weight: 25%	
	5.1	No CV or valid certificates submitted.	5	0
		Detailed CV and valid certified SAQA or equivalent qualification copies provided.		5
	5.2	No CV or valid certificates submitted.	5	0
		Detailed CV and valid certified SAQA or equivalent qualification copies provided.		5

5.3	Fire Fighter with Competency Certificate.	No CV or valid certificates submitted.	5	0
		Detailed CV and valid certified SAQA or equivalent qualification copies provided.		5
5.4	Rigger (Rigging Certificate and experience > 1yr)	No CV or valid certificates submitted.	5	0
		Detailed CV and valid certified SAQA or equivalent qualification copies provided.		5
5.5	Splicer (Splicing Certificate with experience > 2yrs)	No CV or valid certificates submitted.	5	0
		Detailed CV and valid certified SAQA or equivalent qualification copies provided.		5
			TOTAL: 100	
			THRESHOLD: 70	

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET n
N/A								
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET n
1	X	X	X					
2	X	X	X					
3	X	X	X					
4	X	X	X					
5	X	X	X					

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	A method statement that is detailed but excludes minor items that do not reduce the quality of work
2.	
3.	
4.	
5.	
6.	
7.	

Table 6: Unacceptable Technical Risks

Risk	Description
1.	NO pulley lagging, belt splicing and clip joint work experience
2.	NO previous/ similar work experience
3.	
4.	
5.	
6.	
7.	

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Proof of previous work from outside Eskom must have contactable references
1.	Certificates that are from a reputable OEM or supplier
2.	
3.	
4.	
5.	
6.	

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Qualification that are not verifiable or registered with relevant qualification authority
2.	
3.	
4.	
5.	
6.	
7.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Banele Sibisi	System Engineer
Thelma Tjabadi	Senior Supervisor
Henry Matlala	Senior Technician

5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2023	0	B Sibisi	First Draft

6. DEVELOPMENT TEAM

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

Banele Sibisi
Thelma Tjabadi
Henry Matlala

7. ACKNOWLEDGEMENTS

N/A

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