

Title: **Technical Evaluation Strategy: Kriel Power Station Provision of Maintenance Services for Belt Repairs and Splicing for a Period of 3 Years on an as and when required basis**

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Compiled by
Malusi Mlaba
System Engineer



Date: 24/11/2021

Functional Responsibility
Neo Muthavhine
Auxiliary Engineering Manager



Date: 2021/11/24

Authorised by
Rofhiwa Nelwamondo
Group Engineering Manager



Date: 2021/11/24

CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES	3
2.1 SCOPE	3
2.1.1 Purpose	4
2.1.2 Applicability	4
2.2 NORMATIVE/INFORMATIVE REFERENCES	4
2.2.1 Normative	4
2.2.2 Informative	4
2.3 DEFINITIONS	4
2.3.1 Classification	4
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES	5
2.6 PROCESS FOR MONITORING	5
2.7 RELATED/SUPPORTING DOCUMENTS	5
3. TENDER TECHNICAL EVALUATION STRATEGY	5
3.1 TECHNICAL EVALUATION THRESHOLD	5
3.2 TET MEMBERS	6
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	7
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	8
TET MEMBER RESPONSIBILITIES	10
3.4.1 Risks	10
3.4.2 Exceptions / Conditions	11
4. AUTHORISATION	12
5. REVISIONS	12

TABLES

Table 1: TET Members	6
Table 2: Mandatory Criteria	7
Table 3 : Qualitative Criteria	Error! Bookmark not defined.

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1. INTRODUCTION

The works is for hot belt splicing at Kriel Power Station, on an “as and when required basis”. The Contractor complies with every requirement in this scope guideline and satisfies the requirements of SANS 1699/1 and 240-120532564 “Splicing and Repairs of Steel Cord - and Textile/Plied Reinforced Conveyor Belting”

The scope includes joining and repairing of all ST1000 9/8mm ash, EP630/4ply and EP630/3ply coal plant conveyor belts as listed below. Only hot splicing technique may be used. The “stepped-base” design joint shall be used for plied textile belting and “type-1” design joint shall be used for steel cord belting.

2. SUPPORTING CLAUSES

2.1 SCOPE

The works is for hot belt splicing at Kriel Power Station, on an “as and when required basis”. The Contractor complies with every requirement in this scope guideline and satisfies the requirements of SANS 1699/1 and 240-120532564 “Splicing and Repairs of Steel Cord - and Textile/Plied Reinforced Conveyor Belting”

The scope includes joining and repairing of all ST1000 9/8mm ash, EP630/4ply and EP630/3ply coal plant conveyor belts as listed below. Only hot splicing technique may be used. The “stepped-base” design joint shall be used for plied textile belting and “type-1” design joint shall be used for steel cord belting

Belts included in the scope of works:

- Horizontal under-staithe coal conveyor belts

Class 630/3 ply grade N – 900 mm wide

Belts 5A, B, C and D, Coal Staithe 1

Belts 5E, F and G, Coal Staithe 2

NOTE: for these belts only a 220V supply is available at the rear/back of the staithe and a 380V supply at the front for belt curing vulcanizing press.

- Incline coal conveyor belts

Class 630/4 ply grade N – 900mm wide

Belts 6A, B, C and D, Units 1 - 4

Belts 6E, F and G, Units 4 - 6

- Ash overland conveyor belts

Class ST 1000 Grade M – 1050mm wide

Belt 18A & 18B

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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 Kriel Power Station's Auxiliary Engineering Department.

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

2.2.2 Informative

[2] ISO 9001 Quality Management Systems

2.3 DEFINITIONS

Definition	Description
Inspection	Activities, which by means of examination, observation or measurement, determine the conformance of material, parts, components etc., to predetermined specifications and quality requirements.
Maintenance	A combination of all technical, administrative and managerial actions during the life cycle of an item intended to retain it in, or restore it to, a condition in which it can perform its required function.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
SOW	Scope of work
QCP	Quality Control Procedure

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Abbreviation	Description
KPS	Kriel Power Station

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

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%.

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

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3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Malusi Mlaba	System Engineer : Coal Plant
TET 2	Mapula Sethosa	Senior Advisor : Bulk Materials Handling
TET 3	Derik Mahlalela	Technician : Bulk Materials Handling
TET 4	Spha Biyela	Senior Advisor : Bulk Materials Handling

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Criteria

N/A

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Criteria

Tenderers to Score 70% and above to qualify on Technical Evaluation

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Sub Weighting (%)	Criteria Weighting (%)
1	Human Resources and Qualifications: Provide Qualifications of key personnel				
	1.1	Supervisor a) Grade 12 or equivalent and Supervisory training plus 5 years' experience in conveyor splicing -100% b) Grade 12 or equivalent and Supervisory training plus 3 years' experience in conveyor splicing -66% c) Grade 12 or equivalent and Supervisory training plus below 2 years' experience in conveyor splicing -33%	Certified copy of Qualification or certificates as proof	50%	30%
	1.2	Splice men a) Proof of belt splice training -100% b) No proof of splice training -0%		50%	

2	Contractor to compile a QCP for the SOW as it pertains to the works Conveyor Splicing. The QCP shall be compiled in line with the guideline as given in the Eskom QM58 procedure.				
	2.1	Detailed QCP – Contractor demonstrates understanding of technical scope as well as the interpretation of the QM58 procedure - Compliance to SANS 484-1	QCP	100%	20%
3	Methodology: Method Statement for the SOW : Belt Splicing; how the service shall be delivered				
	3.1	Scope Execution methodology -Compliance to SANS 484-1 and 240-120532564 Splicing and Repairs of Steel Cord - and Textile/Plied Reinforced Conveyor Belting standard	Method Statement Document.	30%	45%
	3.2	List of Tools, equipment and Consumables : - Press calibration certificate - Compliance to SANS 484-1 and 240-120532564 Splicing and Repairs of Steel Cord - and Textile/Plied Reinforced Conveyor Belting standard		20%	
	3.3	Materials data sheet: Consumables - For all chemicals to be used for splicing		10%	
	3.4	Detailed Works Technical Risk Assessment with mitigations. In a form of a risk register.		10%	
	3.5	Splice design - Compliance to SANS 484-1 and 240-120532564 Splicing and Repairs of Steel Cord - and Textile/Plied Reinforced Conveyor Belting standard		30%	
	Schedule / Program				
4	4.1	Provide an outline work schedule or program for a belt splice	Schedule/Program	100%	5%
				TOTAL:	100%

TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

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

Foreseen Acceptable / Unacceptable Qualifications

3.4.1 Risks

Table 4: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 5: Unacceptable Technical Risks

Risk	Description
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1.	No proof of artisan qualifications
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3.4.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Neo Muthavhine	Auxiliary Plant Engineering Manager
Nthabiseng Sejane	Auxiliary Plant Maintenance Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2021	1	Malusi Mlaba	First Draft
October 2021	2	Malusi Mlaba	Procurement officers inputs into the document addressed
November 2021	3	Malusi Mlaba	Procurement officers inputs into the document

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