

Title: **Technical Evaluation Strategy
for the RFP for Coal Drying
Technologies**

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1. INTRODUCTION

This document stipulates the technical evaluation strategy for the Request for Proposal (RFP) for the Coal Drying Technologies. The RFP was published calling for Interested Equipment Manufacturers/Suppliers and/or Product Suppliers in Coal Drying Technologies to test their equipment and/or product to ensure effective drying of wet and fine coal on route/inline to boiler bunkers at coal volumes that would allow boilers to perform at optimal outputs.

The strategy has Mandatory and Qualitative Technical Evaluation Criteria.

Mandatory Technical Evaluation Criteria are 'must meet' criteria. These criteria shall not be weighted or point scored, but shall be assessed on a "meet" or "not meet" basis. An assessment of 'not meet' against any criterion shall disqualify the respondent.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest ranked respondent after determining that the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relative importance of each criterion. The following scoring method will be used:

Score	(%)	Definition
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 Meet technical requirement(s) with; <ul style="list-style-type: none">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 exceptions AND/OR;Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE

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

The minimum weighted final score is as per section 3.1

The Qualitative Evaluation Criteria include the success criteria for the tests. The details of the success criteria of the tests will be developed and agreed prior to the tests with the suppliers who are selected to test their technologies or treatment processes.

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2. SUPPORTING CLAUSES

2.1 SCOPE

The scope is limited to the technical evaluation aspect of the submitted RFP responses.

2.1.1 Purpose

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

2.1.2 Applicability

This document shall apply to Eskom Generation Division.

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] 474-12424 Requirements for Wet Coal Treatment Processes and Technologies

2.2.2 Informative

None.

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
RFP	Request for Proposal
TET	Technical Evaluation Team

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

None.

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3. RFP TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a RFP response 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	Andrew Matlala	Chief Engineer
TET 2	Eugene Venter	Chief Engineer
TET 3	Malusi Mlaba	Engineer
TET 4	Ranwedzi Mukhodobwane	Engineer

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Stage 1 Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / RFP Returnable	Motivation for use of Criteria
1.	Detail description of the technology or product and its application system.	Section 1	To have a good understanding of the technology or product and its application system in order to be able to properly evaluate it.
2.	Confirmation that any equipment installed shall not reduce the required coal throughput as coal is transported from the coal stockyard at a given throughput to ensure adequate silo and bunker levels.	Section 1	It is essential that coal is supplied in sufficient quantity to the mill bunkers at all times in order to prevent shortage of coal to the boiler and potential load losses due to low bunker levels.
3.	Confirmation that no plant components will be removed for the fitment of test equipment.	Section 1	To minimize disruption of coal supply to the units.

Table 3: Stage 2 Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / RFP Returnable	Motivation for use of Criteria
4.	No blockages in chutes or staithes	Section 1	To ensure coal flow through chutes or staithes

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Stage 1 Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / RFP Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Treatment Process			TOTAL: 100	
	1.1	Typical surface moisture reduction that the treatment process will be able to achieve.	Section 1	10	
	1.2	Typical application rate of product per tonne of coal treated.	Section 1	10	
	1.3	Product applied online on existing coal handling system (on coal on conveyor belt).	Section 1	10	
	1.4	Product application system uses coal on belt signal and conveyor running signal to apply product on coal.	Section 1	10	
	1.5	Supplier operates and maintains his installation for the duration of the test.	Section 1	10	
	1.6	Services required from Eskom for the product application system (water, power, compressed air, etc.)	Section 1	10	
	1.7	Product is not hazardous and has no effect on coal combustion properties.	Section 1	10	
	1.8	If treatment process generates waste/effluent, the supplier handles the waste/effluent in manner that avoids environmental contravention.	Section 1	10	
	1.9	Reference plants where the product has been applied successfully on wet coal.	Section 1	10	
	1.10	Budget cost of permanent installation	Section 1	10	

2.	Technology				
	2.1	Typical maximum surface moisture the technology will be able to operate at.	Section 1	10	
	2.2	Maximum coal throughput capacity the technology can handle.	Section 1	10	
	2.3	Technology to be installed on existing coal handling system.	Section 1	10	
	2.4	Technology uses signal confirming presence of coal to activate.	Section 1	10	
	2.5	Supplier operates and maintains his installation for the duration of the test.	Section 1	10	
	2.6	Services required from Eskom for the product application system (water, power, compressed air, etc.)	Section 1	10	
	2.7	Technology will not generate airborne dust.	Section 1	10	
	2.8	If technology generates waste/effluent, the supplier handles the waste/effluent in manner that avoids environmental contravention.	Section 1	10	
	2.9	Reference plants where the technology has been applied successfully on wet coal.	Section 1	10	
	2.10	Budget cost of permanent installation	Section 1	10	

Table 5: Stage 2 Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / RFP Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
3.	Treatment Process		TOTAL: 100	

	3.1	No adhesion or conglomeration of coal particles.	Section 1	40	
	3.2	Product must not migrate in coal during coal storage.	Section 1	20	
	3.3	Product must not have an effect on combustion.	Section 1	40	
4.	Technology			TOTAL: 100	
	4.1	No build-up on at least 75% of the chute surface.	Section 1	20	
	4.2	No damage to chute tiles.	Section 1	30	
	4.3	Technology must be in operation once per hour for a very short duration (not continuously)	Section 1	30	
	4.4	Technology must not generate dust.	Section 1	10	
	4.5	There must be no need for cleaning (chute must be clean).	Section 1	10	

3.5 TET MEMBER RESPONSIBILITIES

Table 6: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET n
1.	X	X	X	X				
2.	X	X	X	X				
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET n
1.1	X	X	X	X				
1.2	X	X	X	X				
1.3	X	X	X	X				
1.4	X	X	X	X				
1.5	X	X	X	X				
1.6	X	X	X	X				
1.7	X	X	X	X				
1.8	X	X	X	X				
1.9	X	X	X	X				
1.10	X	X	X	X				
2.1	X	X	X	X				

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2.2	X	X	X	X				
2.3	X	X	X	X				
2.4	X	X	X	X				
2.5	X	X	X	X				
2.6	X	X	X	X				
2.7	X	X	X	X				
2.8	X	X	X	X				
2.9	X	X	X	X				
2.10	X	X	X	X				

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 7: Acceptable Technical Risks

Risk	Description
1.	Minor (in-situ) modifications to existing plant.
2.	Supply of yellow plant by Eskom.
3.	
4.	
5.	
6.	
7.	

Table 8: Unacceptable Technical Risks

Risk	Description
1.	Requirement that Eskom supply storage facilities over and above the existing facilities.
2.	Removal of existing plant to effect modifications.
3.	Supply of special lifting equipment by Eskom.
4.	
5.	
6.	
7.	

3.6.2 Exceptions / Conditions

Table 9: Acceptable Technical Exceptions / Conditions





Risk	Description
1.	Short and defined fine tuning period prior to test.
2.	
3.	
4.	
5.	
6.	

Table 10: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Supply of electricity beyond capability of existing installation.
2.	
3.	
4.	
5.	
6.	
7.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Andrew Matlala	Chief Engineer	
Eugene Venter	Chief Engineer	
Malusi Mlaba	Engineer	
Ranwedzi Mukhodobwane	Engineer	

5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2020	0.1	A R Matlala	First Draft document To adjudicate RFP responses for Review
October 2020	0.2	A R Matlala	Final Draft after the Review Process
April 2021	0.3	A R Matlala	Additional Updates Completed
April 2021	0.4	A R Matlala	Final Draft after Additional updates completed
April 2021	1	A R Matlala	Final Document for Authorisation and Publication

6. DEVELOPMENT TEAM

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

- Andrew Matlala
- Eugene Venter

7. ACKNOWLEDGEMENTS

None

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