Eskom	Report	Medupi Power Station

Title:	**Medupi Power Station Tender Technical Evaluation Strategy – Supply of Clean Drain System Valves Spares**	Unique Identifier:	**241-20221116**
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Compiled by	Supported by	Functional Responsibility	Authorised by
Kalaba Mankge	**Tebogo Mokoena**	**Khathu Mudzielwana**	**Sithokozile Hlongwa**
Engineer in Training	**Senior Engineer**	**Turbine Engineering Manager**	**Acting Engineering Group Manager**
Date: 09/05/2025	Date: 2025/05/20	Date: 2025/05/30	Date: 2025.06.08

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1. Introduction

Medupi Power Station is establishing a spare supply contract for three-way valves on the Turbine Condensate pump discharge and the TCT drain valves along with the Liquid drain flash tanks drain valves spares that will be used in the Clean drain system. An invitation is to be issued for prospective suppliers to participate in the tendering process for the said contract. This document sets out the method and criteria that will be used to evaluate the tenders for the supply of clean drains valves spares system documented in the works instruction 241-20221116 - Medupi Power Station Clean Drain Valves Spares Scope of Work.

2. Supporting Clauses

2.1 Scope

The document describes the acceptable and unacceptable risks and qualifications and/or conditions.
The Tender Technical Evaluation Strategy will define the following technical evaluation criteria:

- Mandatory Evaluation criteria
- Qualitative Evaluation criteria
- TET Member Responsibilities
- Acceptable/Unacceptable Qualifications

No changes will be permitted to the evaluation criteria once the Engineering Group Manager approves the Technical Evaluation Strategy.

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 is a basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to the Tender Evaluation Team for Medupi Power Station Clean Drain Valves Spares Scope of Work 241-20221116.

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 Engineering Evaluation Procedure

[3] 32-1034: Eskom Procurement and Supply Chain Management Procedure

2.2.2 Informative

[4] **241-20221116** Medupi Power Station Clean Drains System Spares Scope of Work

2.3 Definitions

2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law or discretionary).

2.4 Abbreviations

Abbreviation	Description
BOM	Bill of Material
BOQ	Bill of Quantity
MMD	Mechanical Maintenance Department
IED	Intelligence Electronic Device
ISO	International Standard Organisation
TCT	Turbine Condensate tank
LCM	Clean Drain System
N/A	Not Applicable
SOW	Scope of Work
TET	Technical Evaluation Team

2.5 Roles and Responsibilities

As per 240-48929482: Tender Technical Evaluation Procedure.

2.6 Process for monitoring

Not Applicable.

2.7 Related/Supporting Documents

Not Applicable.

3. Document Content

This section details the methodology to be used by Eskom in scoring the "Technical" category of the tender evaluation. The appointed Eskom TET members will perform this evaluation exercise.

The evaluation of the tenders will be based on the Tenderer's ability to meet the technical requirements. The evaluation consists of mandatory criteria and qualitative criteria. The results of the mandatory evaluation will be "Compliant" or "Non-Compliant."

The qualitative evaluation shall apply a weighted scorecard approach to evaluate the tenders against the specifications and Eskom's requirements. Table 1 below shall be used for the scoring method.

Table 1: Scoring Method

SCORE	PERCENTAGE	DESCRIPTION
5	100	**COMPLIANT** ▪ 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; ▪ Acceptable technical risk(s) AND/OR; ▪ Acceptable exceptions AND/OR;

SCORE	PERCENTAGE	DESCRIPTION
		▪ Acceptable conditions.
2	40	**NON-COMPLIANT** ▪ Does not meet the technical requirement(s) AND/OR; ▪ Unacceptable technical risk(s) AND/OR; ▪ Unacceptable exceptions AND/OR; ▪ Unacceptable conditions.
0	0	**DEFICIENT OR NON-RESPONSIVE**

3.1 Technical Evaluation Threshold

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%. This score is applicable to the qualitative evaluation criteria.

3.2 Mandatory Evaluation Criteria

All tenders will need to pass the mandatory section. The mandatory evaluation will be on a YES/NO basis as to whether the criteria are met. An assessment of "NO" against the criteria will immediately disqualify the submission, and no further assessment will be made. Refer to Table 3 for mandatory requirements.

3.3 Qualitative Evaluation

Table 2: Qualitative Evaluation Criteria

Technical (100%)	
3.3.1 Previous Work Experience	20%
3.3.2 Technical Expertise	45%
3.3.3 Quality of Submitted Documents	15%
3.3.4 Delivery	20%
TOTAL (100%)	
The overall minimum threshold for qualification (80%)	

4. Mandatory Technical Evaluation Criteria

Table 3: Mandatory Technical Evaluation Criteria

Criteria Ref #	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for the use of Criteria
1.	Tenderer shall have a minimum of 50% orders with 4 or more verifiable references for the supply and delivery of Clean Drain Valves listed in the BOQ.	The Tenderer shall provide the previously certified copies of the PO/contract as proof, and those copies should include the following information: ▪ Name of the company where similar spares were supplied to and accepted. ▪ Value of the PO/contract. ▪ Contact person and contact details (reference)	Demonstrate experience on similar projects

5. Qualitative Technical Evaluation Criteria

Notes:

- The scores for this section will be allocated as per Table 1.
- The BOQ is listed in annexure A of this document.
- The information/documents provided by the Tenderer shall be subjected to verification processes.

5.1 Technical Scoring Criteria

Table 4: Technical Scoring Criteria

Criteria Ref #	Description		Weighting (%)	Sub-Weighting (%)	Reference to Technical Specification /Tender Returnable	Scoring Criteria
1.	**Previous Work Experience**		**20**			5 = 100% COMPLIANT ▪ The letter provided proof that the OEM has given permission to the Tenderer to supply and distribute their valves. ▪ When all spares items as per BOQ are covered 4 = 80% COMPLIANT WITH ASSOCIATED QUALIFICATIONS ▪ The letter provided proof that the OEM has given permission to the Tenderer to supply and distribute their valves. ▪ When 70% of the items as per BOQ are covered 2 = 40% NON-COMPLIANT ▪ Letter submitted but not satisfactory ▪ When less than 50% of items are covered 0 = Totally deficient OR Non-Response
	1.1	The Tenderer shall have an OEM appointment letter or permission letter, or an agreement letter with the proposed valves OEM listed on BOQ by the End User		20%	The Tenderer shall be a technically suitable supplier who should be utilised for the supply of Clean Drain system Valves. ▪ The Tenderer shall have an agreement with the proposed OEM for all items listed on BOQ as proof.	
2.	**Technical Expertise**		**45**			
	2.1	The Tenderer shall have the ability to provide technical		45%	The Tenderer is required to demonstrate the ability to understand in detail the application and functionalities of Clean	5 = 100% COMPLIANT ▪ All valve spares copies of the data sheet provided

Criteria Ref #	Description	Weighting (%)	Sub-Weighting (%)	Reference to Technical Specification /Tender Returnable	Scoring Criteria
	support for Clean Drains System valves listed on BOQ/similar applications. In case the Tenderer is not the OEM, they should provide an agreement or prove that the OEM will assist in case technical support is required. 2.2.The Tenderer shall provide Data Sheets for the valves spares listed on the BOQ along with drawings 2.3. Tenderer to provide a warranty on the items listed on the BOQ			Drain System valves listed on BOQ/similar applications. Tenderers should provide the following information. ▪ Copies of Datasheet for each item listed on the BOQ/similar application, including test certificates, material certicates and drawings. ▪ In case the Tenderer is not the OEM, they should provide an agreement or prove that the OEM will assist in case technical support is required ▪ Letter indicating the duration of warranty that can be given.	▪ Proof that the tendered has a complete understanding of the application and functionalities of the valves as per the BOQ/similar application ▪ In case the Tenderer is not the OEM, they should provide an agreement or prove that the OEM will assist in case technical support is required 4 = 80% COMPLIANT WITH ASSOCIATED QUALIFICATIONS ▪ 70% of all item spares copies of the data sheet provided ▪ Proof that the tendered has a full understanding of the application and functionalities of the valves as per the BOQ/similar application ▪ In case the Tenderer is not the OEM, they should provide an agreement or prove that the OEM will assist in case technical support is required 2 = 40% NON-COMPLIANT ▪ Less than 4 copies of the data sheet provided ▪ Proof that the tendered has a full understanding of the application and functionalities of the valves as per the BOQ/similar application ▪ In case the Tenderer is not the OEM, they should provide an agreement or prove that the OEM will assist in case technical support is required

Criteria Ref #	Description		Weighting (%)	Sub-Weighting (%)	Reference to Technical Specification /Tender Returnable	Scoring Criteria
						0 = Totally deficient OR Non-Response
3.	**Quality of Submitted Documents**		**15**			
	3.1	Tenderers shall be able to perform QC on the Clean Drain System valves listed on BOQ/similar application.		15%	The Tenderer should demonstrate the criticality of handling the spares listed in BOQ/similar application. Tenderers should provide the following information ▪ Qualifications of tenderer employees qualified to do the QC on LCM system valves ▪ Type test certificates of components listed on BOQ/similar application	5 = 100% COMPLIANT ▪ Meet technical requirement(s)/AND; ▪ Qualification submitted ▪ Proof that the Tenderer is aware of the handling of high temperature & high-pressure manual gate and globe valves. 4 = 80% COMPLIANT WITH ASSOCIATED QUALIFICATIONS ▪ Providing a provision of standard operating procedures or method statements detailing the handling and maintenance of manual gate and globe valves under extreme conditions 2 = 40% NON-COMPLIANT ▪ Qualification submitted 0 = Totally deficient OR Non-Response
4.	**Delivery**		**20**	2025///		
	4.1	The Tenderers shall provide the estimated delivery timelines of each critical spare		20%	The Tenderer is to demonstrate the ability to supply spares within a set timeline of less than 12 weeks.	5 = 100% COMPLIANT ▪ Meet technical requirement(s)/AND; ▪ When all critical spares are to be delivered within 12 weeks.

Criteria Ref #	Description		Weighting (%)	Sub-Weighting (%)	Reference to Technical Specification /Tender Returnable	Scoring Criteria
		listed on BOQ/similar application from the moment the PO is received			▪ Provide a delivery schedule for all critical spares listed on BOQ/similar application.	4 = 80% COMPLIANT WITH ASSOCIATED QUALIFICATIONS ▪ When all critical spares are to be delivered between 13 and 16 weeks, 2 = 40% NON-COMPLIANT ▪ When all critical spares are to be delivered within 16 weeks and more weeks, 0 = Totally deficient OR Non-Response
			TOTAL: 100%			

6. Technical Evaluation Members

6.1 Tet Members Details

Table 5: Technical Evaluation Members

TET number	TET Member Name	Designation
TET 1	Kalaba Mankge	Engineer in Training
TET 2	Dipolelo Matjipa	System Engineer
TET 3	Mahlane Letselane	Turbine Maintenance Manager
TET 4	Siphesihle Noguda	Senior Supervisor MMD
TET 5	Aubrey Mokgotho	Assistant Officer - Materials Management
TET 6	Mlungisi ndlovu	Project Co-Ordinator
TET 7	Dinana Mlandu	Senior Supervisor

6.2 Tet Members Responsibilities

Table 6: TET Member's Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7
1	X	X	X	X	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TET 5**	**TET 5**
1	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X

7. Foreseen Acceptable/Unacceptable Qualifications

7.1 Risk

Table 7: Acceptable Technical Risks

Risk	Description
1	Inviting Supplier/s with no relevant experience on specific equipment such as IED's.

2	Tendering without conducting site visit/s for plant walk-down/s.

Table 8: Unacceptable Technical Risks

Risk	Description
1	Mandatory criteria 1 not evaluated and/or satisfied.

8. Authorisation

This document has been seen and accepted by:

Name & Surname	Designation
Mahlane Letselane	Turbine maintenance Manager
Sarita Henning	System Engineer
Lwazi Mohoto	Supervisor MMD
Siphesihle Noguda	Senior Supervisor MMD
Aubrey Mokgotho	Assistant Officer - Materials Management

9. Revisions

Date	Rev.	Compiler	Remarks
April 2025	01	Kalaba Mankge	Medupi Power Station Tender Evaluation Criteria for LCM System Valves.

10. Development team

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

- Dipolelo Matjipa

11. BOQ

Item Number	KKS	Type Of Spare	Description	Material number	Quantity for 5 years
1	LCM20 AA301 302	Globe Valve	DN15		15
2	LCM20 AA301 302	Globe Valve Repair kit	DN15		
3	LCM41 AA102	Valve butterfly	DN80, Process Conditions: Flow: 305m3/h, T =1200C, at 750 kPa, Output signal type: 4 - 20mA, Manifold / Valve Material: 1.4571, Rack mounting type , Mounting Bracket Material		13
4	LCM41 AA102	Valve butterfly Repair kit	DN80, Process Conditions: Flow: 305m3/h, T =1200C, at 750 kPa, Output signal type: 4 - 20mA, Manifold / Valve Material: 1.4571, Rack mounting type , Mounting Bracket Material		13
5	LCM45 AA601	Minimum flow valve	Recirculation valve, 8"inlet, 8"outlet, 150#, horizontal	0581716	10
6	LCM45 AA601	Minimum flow valve Repair Kit	Recirculation valve, 8"inlet, 8"outlet, 150#, horizontal		10
7	LCM41 AA601, LCM42 AA601	Minimum flow valve	Recirculation valve, 6"inlet, 6"outlet, 150#, horizontal	0581717	10
8	LCM41 AA601, LCM42 AA601	Minimum flow valve Repair Kit	Recirculation valve, 6"inlet, 6"outlet, 150#, horizontal		10
9	LCM52 AA001 LCM51 AA002 LCM51 AA501 LCM51 AA502 LCM51 AA503	Valve Ball	DN300		3
10	LCM52 AA001 LCM51 AA002 LCM51 AA501 LCM51 AA502 LCM51 AA503	Valve Ball Repair Kit	DN300		10

Item Number	KKS	Type Of Spare	Description	Material number	Quantity for 5 years
11	LCM51 AA504	Valve	Butterfly valve PN16 DN 350	0653967	10
12	LCM51 AA504	Valve Repair Kit	Butterfly valve PN16 DN 350		10
13	LCM41-42/45 AA403	Valve	BALL VALVE; 15 kPa; DN25. Welded	0656215	10
14	LCM41-42/45 AA403	Valve Repair Kit	BALL VALVE; 15 kPa; DN25. Welded		15
15	LCM30 AA301 302 306 – 10 MAG95 AA 301 302 305 – 310	Valve	ALVE, BALL:DN50;15 KPA;FLANGE;PTFE	0656218	15
16	LCM30 AA301 302 306 – 10 MAG95 AA 301 302 305 – 310	Valve Repair Kit	ALVE, BALL:DN50;15 KPA;FLANGE;PTFE		20
17	LCM30 AA303 304 403 404 MAG95 AA 303 304 404 405	Valve	DN25, Flanged		16
18	LCM30 AA303 304 403 404 MAG95 AA 303 304 404 405	Valve Repair Kit	DN25, Flanged		20
19	LCM30 AA402 MAG95 AA402 403	Valve, Ball	VALVE, BALL:DN100;15 KPA;FLANGE;PTFE	0656219	10
20	LCM30 AA402 MAG95 AA402 403	Valve, Ball Repair Kit	VALVE, BALL:DN100;15 KPA;FLANGE;PTFE		14
21	LCM52 AA101	Valve butterfly	DN150		5
22	LCM52 AA101	Valve butterfly Repair Kit	DN150		15
23	LCM52 AA601	Valve Check	DN150		8
24	LCM52 AA601	Valve Check Repair Kit	DN150		15

Item Number	KKS	Type Of Spare	Description	Material number	Quantity for 5 years
25	LCM45 AA501	Valve	Butterfly valve ; PN16; DN 100	0653977	4
26	LCM45 AA501	Valve Repair Kit	Butterfly valve ; PN16; DN 100		15
27	LCM41 AA501 LCM42 AA501	Valve	Butterfly valve; PN16; DN80	0653973	4
28	LCM41 AA501 LCM42 AA501	Valve Repair Kit	Butterfly valve; PN16; DN80		12
29	LCM45 AA102	Valve	Butterfly valve PN16 DN 350	0653967	6
30	LCM45 AA102	Valve Repair Kit	Butterfly valve PN16 DN 350		12
31	LCM45 AA101	Valve	Butterfly valve; PN16; DN500	0653964	4
32	LCM45 AA101	Valve Repair Kit	Butterfly valve; PN16; DN500		10
33	LCM41 42 AA101	Valve	Butterfly valve; PN16; DN350 120 degC	0634022	4
34	LCM41 42 AA101	Valve Repair Kit	Butterfly valve; PN16; DN350 120 degC		10
35	LCM41 42 45 AA302 401 402 404/ LCM50 AA 301 – 309 MAJ 20 AA301	Valve Globe	DN15 Globe valve		10
36	LCM41 42 45 AA302 401 402 404/ LCM50 AA 301 – 309 MAJ 20 AA301	Valve Globe Repair Kit	DN15 Globe valve		18
37	LCM41/42 AA301 303-304 MAG95 AA311 LCM30 AA311 MAG01 -02 AA301 302 303 304	Valve	BALL VALVE; 15 kPa; DN25. Flanged	0656209	8
38	LCM41/42 AA301 303-304 MAG95 AA311 LCM30 AA311	Valve Repair Kit	BALL VALVE; 15 kPa; DN25. Flanged		18

Item Number	KKS	Type Of Spare	Description	Material number	Quantity for 5 years
	MAG01 -02 AA301 302 303 304				
39	LCM45 AA302 LCM45 AA301 LCM45 AA304 LCM45 AA303 LCM50 AA301-309	Valve	Globe VALVE; PN20; DN15	0659220	15
40	LCM45 AA302 LCM45 AA301 LCM45 AA304 LCM45 AA303 LCM50 AA301-309	Valve Repair Kit	Globe VALVE; PN20; DN15		20
41	LCM 41 42 45 AA403	Valve	Ball Valve; PN20; DN25 , Welded	0656215	8
42	LCM 41 42 45 AA403	Valve Repair Kit	Ball Valve; PN20; DN25 , Welded		16
43	LCM41 AA102 LCM42 AA102	Butterfly Valve	Butterfly valve PN16 DN 250	0653957	6
44	LCM41 AA102 LCM42 AA102	Butterfly Valve Repair Kit	Butterfly valve PN16 DN 250		15
45	LCM 10 AA301 AA302	Globe valve	Globe valve, welded, DN 15 class 800		6
46	LCM 10 AA301 AA302	Globe valve, Repair kit	Globe valve, welded, DN 15 class 800		15
47	MAJ 25 AA501	Globe Valve, Flanged	Globe valve (control cone) DN50		4
48	MAJ 25 AA501	Globe Valve, Flanged Repair Kit	Globe valve (control cone) DN50		10
49	MAG95 AA 303 304 404 405	Ball Valve	DN25, flanged ball valve		5
50	MAG95 AA 303 304 404 405	Ball Valve Repair Kit	DN25, flanged ball valve		10
51	LCW41 42 45 AA501	Globe valve	Globe valve (control cone), DN15		5

Item Number	KKS	Type Of Spare	Description	Material number	Quantity for 5 years
52	LCW41 42 45 AA501	Globe valve Repair Kit	Globe valve (control cone), DN15		12

2025/