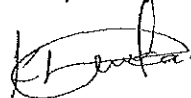


 Eskom	Strategy	Engineering
---	----------	-------------

Title	Tender Technical Evaluation Strategy for Kendal Power Station Appointment of Professional Services for Dam Lining	Unique Identifier	
		Alternative Reference Number	N/A
		Area of Applicability	Kendal PS
		Documentation Type	Strategy
		Revision	N/A
		Total Pages	19
		Next Review Date	N/A
		Disclosure Classification	CONTROLLED DISCLOSURE

Compiled by

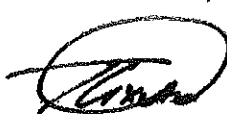


Kellie Kwinika
Auxiliary Civil Engineer

Kendal Power Station

Date 09/12/2020

Functional Responsibility



Thando Gxota
Auxiliary Engineering
Manager

Kendal Power Station

Date 22/02/2021

Authorised by



Malibongwe Mabizela
Engineering Manager
Kendal Power Station

Date 23/02/2021

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.....	4
2.6 PROCESS FOR MONITORING.....	5
2.7 RELATED/SUPPORTING DOCUMENTS.....	5
3. TENDER TECHNICAL EVALUATION STRATEGY	5
3.1 TECHNICAL EVALUATION METHOD.....	5
3.2 TECHNICAL EVALUATION THRESHOLD	6
3.3 TET MEMBERS.....	6
3.4 MANDATORY TECHNICAL EVALUATION CRITERIA	7
3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA.....	8
3.6 TET MEMBER RESPONSIBILITIES.....	14
3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS.....	15
3.7.1 Risks.....	15
3.7.2 Exceptions / Conditions.....	15
4. AUTHORISATION.....	16
5. REVISIONS	16
6. DEVELOPMENT TEAM	16
7. ACKNOWLEDGEMENTS	16
APPENDIX A: LIST OF TENDER TECHNICAL RETURNABLES.....	17

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

1. INTRODUCTION

Kendal Power Station is currently violating the government notice 704(GN no 704), due to not lining dirty dams.

All dirty water from the station's operating area and polluted storm water is diverted into the Dirty water dam. Water abstractions, for mainly dust suppression of the ash dumps and ash conditioning, are made to control the level of this dam, to such an extent that spillage does not occur more than once every 50 years.

Spillage of the dam flows into the downstream located Emergency dam, which is emptied again shortly after such an event has occurred. In the unlikely event that the Emergency dam exceeds its capacity, water will spill in the downstream located clean water dam. This dam spills into the natural river system.

The three dams are constructed on a natural river. A diversion canal has been constructed to divert the natural flow around the Dirty and Emergency dams to discharge the water into the clean water dam.

The Coal stock yard at Kendal power station is surrounded by a concrete lined channel which discharges runoff to the coal stock yard dam. When the water level increases, the dirty water overflows via the spillway to the dirty dam. A portion of this coal stock yard dam is lined with concrete, while the other portion is not lined.

The Maturation dam is used to contain treated effluent from the sewage treatment plant. The water use license of Kendal Power Station does not allow for discharge of effluent into the environment. When the maturation dam is full, the treated effluent in the maturation dam is pumped to the dirty dam for production purposes. .

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for the appointment of Professional Services for Dam Lining at Kendal Power Station. The scope for the professional services is as described in the Scope of Work.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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 the Tender Evaluation Team for the Scope of works for the Appointment of Professional Services for Dam Lining at Kendal Power Station.

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] Scope of Works for Appointment of Professional Services for Dam Lining

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
ECSA	Engineering Council of South Africa
LDE	Lead Discipline Engineer
PS	Power Station
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION METHOD

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. Tenderers need to have a weighted score of 75% overall or more to technically qualify for further evaluation.

The technical criteria and weighting is broken down as follows:

- a) Civil Engineering: 100%

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements.

The scoring method will be as follows:

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; • Acceptable conditions.
2	40	NON-COMPLIANT • 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

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

The evaluation scores will be weighted as follows according to disciplines:

Engineering (100%)	
Civil Engineering	100%
TOTAL (100%)	
Overall minimum threshold for qualification (75%)	

3.2 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 75%.

3.3 TET MEMBERS

Table 1: Core TET Members

TET number: Section to be evaluated	TET Member Name	Designation
TET 1: Civil Engineering	Kellie Kwinika	Civil Engineer
TET 2: Civil Engineering	Redz Pillay	Civil Engineer
TET 3: Civil Engineering	Petrus Makgolane	Civil Engineer

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

3.4 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.1	Designs should be performed and approved by Engineering Council of South Africa (ECSA) professional registered Engineer. The engineer must also be a APP (Approved Professional Person) The tenderer submit CVs of key technical personnel as well as their professional registration with the Engineering Council of South Africa (ECSA) and APP (Approved Professional Person) Registration Civil: Professional Engineer (Pr. Eng.) or Professional technologist (Pr. Tech.)	List of Tender Technical Returnables	This is to ensure that the tenderer has skills capability to execute the works, as well as assume accountability for the works, and can be held legally liable for the designs.

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Civil Engineering			100	
	1.1	An organogram structure: An organogram structure to be submitted covering the Key project team names, Qualifications, years of experience and roles in the project. Valid certified qualifications and CVs must be attached: Key Resource Requirements: a) Demonstrate that the proposed key personnel have worked on similar projects. CVs for key personnel to be used on this project to be submitted. b) Demonstrate that each of the proposed key resources have the following experience: 1. Professional Civil Engineer/Technologist: BEng/BSc or BTech in Civil Engineering and ECSA certificate with APP(Approved professional person) 2. Registered Professional Land Surveyor 3. Geohydrologist 4. Environmental scientist	Scope of Work List of Technical Tender Returnables Item 1.		20

		5. All four professional in the structure=5 6. Three (3) of the four(4) professionals in the structure = 4 7. Two (2) of the four(4) professionals in the structure = 2 8. One (1) of the four(4) professionals in the structure = 0			
	1.2	Relevant experience (track record) – Dams Design. 1. Project name 2. Description of work performed 3. Project cost (only for scope performed) 4. Project start and end date The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) contracts successfully of similar scope in the last ten (10) years. Include Name, designation and contact number of reference person • More than two (2) dam lining design contracts successfully completed of similar scope =5 • Two (2) dam lining design contracts successfully completed of similar scope = 4 • One (1) dam lining design contract successfully completed of similar scope = 2	As per item 2 of the List of Technical Tender Returnables.		30

		No relevant dam design experience = 0			
	1.3	Relevant experience Environmental Authorisation: - Project name - Description of work performed - Project cost (only for scope performed) - Project start and end date The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) environmental authorisations successfully of similar scope in the last ten (10) years. - More than two (2) Environmental Authorisation contracts successfully completed of similar scope = 5 - Two (2) Environmental Authorisation contracts successfully completed of similar scope = 4 - One (1) Environmental Authorisation contract successfully completed of similar scope = 2 - No relevant Environmental Authorisation experience = 0			10
	1.4	Project execution Plan: Proposal for scope of works indicates clearly the	List of Technical Tender Returnables Item 3.		20

		scope to be undertaken, compliance to required standards, guidelines, regulations & legislature. As a minimum the following should be included on the plan : a) Feasibility studies b) Design, drawings and BoM c) Geotechnical Investigation d) Specialist studies e) EIA f) Tools to be used to execute the services • Proposal details fully how scope will be met and provides comprehensive methodology of approach =5 • Proposal describes how scope will be met and includes minor details = 4; • Proposal does not contain methodology of approach but contains high level descriptions of how construction will be conducted OR Technical proposal reiterates scope of works = 2 • No submission made = 0			
	1.5	Professional Indemnity insurance • Professional Indemnity insurance of	List of Technical Tender Returnables Item 2.		10

		R5million and above=5 Professional indemnity of less than R5million =0			
	1.6	Project programme Level 3 programme in Microsoft Projects and submitted in electronic MPS format together with a PDF copy. Programme includes the following as per the scope of work: a) Milestones key dates clearly showing for Feasibility studies, Design, Geotechnical Investigation, Specialist studies, EIA as a minimum. b) Programme duration indicates that it can be completed within the contract key dates supplied. - MS Project programme outlining 90-100% activities and milestones as per scope of work =5 - MS Project programme outlining 80- 90% of the activities and milestones as per scope of work =4 - MS Project programme outlining less than 80% of the activities and milestones as per			10

		scope of work = 2 No programme submitted =0			
--	--	---	--	--	--

3.6 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1.1	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3
1.1	X	X	X
1.2	X	X	X
1.3	X	X	X
1.4	X	X	X
1.5	X	X	X
1.6	X	X	X

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 6: Unacceptable Technical Risks

Risk	Description
1.	N/A

3.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Consultants technical submission does not address entire scope required

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Kellie Kwinika	Civil Engineer
Redz Pillay	Civil Engineer
Petrus Makgolane	Civil Engineer
Thando Gxota	Auxiliary Manager (Acting)

5. REVISIONS

Date	Rev.	Compiler	Remarks
December 2020	N/A	K Kwinika	Original Document

6. DEVELOPMENT TEAM

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

- Kellie Kwinika

7. ACKNOWLEDGEMENTS

- Redz Pillay

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

APPENDIX A: LIST OF TENDER TECHNICAL RETURNABLES

- **Mandatory**

Item	Title	Details
1.1	The tenderer submit CVs of key technical personnel as well as their professional registration with the Engineering Council of South Africa (ECSA) and APP (Approved Professional Person) Registration Civil: Professional Engineer (Pr. Eng.) or Professional Technologist (Pr. Tech)	Item identifies relevant qualification and experience profile to demonstrate level of experience of resource

- **Qualitative**

Item	Title	Details
1.1	An organogram structure: An organogram structure to be submitted covering the Key project team names, Qualifications, years of experience and roles in the project. Valid certified qualifications and CVs must be attached: Key Resource Requirements: a) Demonstrate that the proposed key personnel have worked on similar projects. CVs for key personnel to be used on this project to be submitted. b) Demonstrate that each of the proposed key resources have the following experience: 1. Professional Civil Engineer: BEng/BSc or BTech in Civil Engineering and ECSA certificate with APP(Approved professional person) 2. Registered Professional Land Surveyor	Item identifies relevant qualification (including ECSA Registration Number) and experience profile to demonstrate level of experience of resource.

CONTROLLED DISCLOSURE

	3. Geohydrologist 4. Environmental scientist	
1.2	Relevant experience (track record) – Dams Design. 1. Project name 2. Description of work performed 3. Project cost (only for scope performed) 4. Project start and end date The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) contracts successfully of similar scope in the last ten (10) years.	Experience profile to demonstrate level of experience of the tenderer.
1.3	Relevant experience Environmental Authorisation: The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) environmental authorisations successfully of similar scope in the last ten (10) years. 1. Project name 2. Description of work performed 3. Project cost (only for scope performed) 4. Project start and end date	Experience profile to demonstrate level of experience of the tenderer.
1.4	Project execution Plan As a minimum the following should be included on the plan : a) Feasibility studies b) Design c) Geotechnical Investigation d) Specialist studies e) EIA f) Tools to be used to execute the services	Item indicates clearly the scope to be undertaken, compliance to required standards, guidelines, regulations & legislature

CONTROLLED DISCLOSURE

1.5	Professional Indemnity insurance of R5million and above must be submitted	Item identifies the credibility of the tenderer to liabilities
1.6	Submits Level 3 programme in Microsoft Projects and submitted in electronic MPS format together with a PDF copy.	Item identifies consultant project timelines

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.