

	Strategy	Technology
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Title: **Duvha Power Station Sulphuric Acid Storage and Dilution System Technical Evaluation Strategy**

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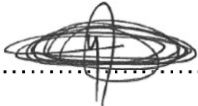
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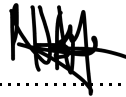
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1. INTRODUCTION

This document is aimed at setting the standard technical evaluation criteria to be used when evaluating the tender submissions for Duvha Power Station Sulphuric Acid Storage and Dilution System Project. Ion Exchange Resins perform one of the most crucial tasks in the production of demineralized (demin) water; which is the removal of unwanted cations and anions. After a while, these resins become exhausted and need to be regenerated in order to perform their function. The Sulphuric Acid Storage and Dilution system is used to regenerate resins within the cation and mixed bed units.

The cation and mixed bed segments of the Sulphuric Acid Storage and Dilution system has experienced a significant amount of downtime; due to several failures in the pipework. The reasons for these failures were lack of timeous maintenance and lack of foresight in the current design. These failures have impacted the demin water production as well as compromised the safety of the operating and maintenance staff. The objective of this project was to design a sulphuric acid storage and dilution system that will enable accurate, timeous and safe regeneration of resins in the cation and mixed bed exchangers.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document contains all the multi-disciplinary design team's technical requirements that will be evaluated, the evaluation team members along with their responsibilities and also describes the acceptable and unacceptable risks, qualifications and/or conditions.

The technical evaluation requirements consist of the following criteria:

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria
- Acceptable / Unacceptable Qualifications

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

2.1.2 evaluation process.Applicability

This document shall apply to the Duvha 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] 240-168966153: Tender Engineering Evaluation Procedure
- [2] ISO 9001 Quality Management Systems
- [3] 32-1034 Eskom Procurement Policy
- [4] 240-53716712: Tender Technical Evaluation Results Form Template
- [5] [4] 240-53716726: Tender Technical Evaluation Scoring Form Template

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2.2.2 Informative

- [6] 240-53113685: Design Review Procedure
- [7] 240-53114026: Project Engineering Change Management Procedure
- [8] 382-169378 Duvha Power Station Sulphuric Acid Storage and Dilution System Technical Specification

2.3 DEFINITIONS

Definition	Description
Contractor/Tenderer	Refers to the corporation appointed to perform the engineering, procurement, and construction works required for the project.
Employer	Refers to Eskom Holdings State Owned Company
Eskom Plant Engineering	Refers to the Eskom Engineering team who will perform the reviews and provide technical assistance for the work performed by the appointed Contractor.
Specification	The document/s forming part of the contract in which the methods of executing the various items of work to be done is described, as well as the nature and quality of the materials to be supplied and it includes technical schedules and drawings attached thereto as well as all samples and patterns
The Client	The end user will be Eskom who will be represented by Kendal Power Station throughout the duration of the Project.
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

2.3.1 Disclosure Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
CAD	Computer Aided Design
CoE	Centre of Excellence
DWS	Department Water and Sanitation
ECSA	Engineering Council of South Africa
EDWL	Engineering Design Work Lead
KWS	Komati Water Scheme
LDE	Lead Design Engineer
OEM	Original Equipment Manufacture
TET	Technical Evaluation Team
WTP	Water Treatment Plant

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2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

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3. TECHNICAL TENDER EVALUATION STRATEGY

A two stage Technical Evaluation Strategy is set out:

Stage 1: Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria are not weighted or points scored but, are assessed on a Yes/No basis to ascertain whether or not the criteria are met. An assessment of 'No' against any mandatory criterion will disqualify the tenderer and the tenderer will not be evaluated against Qualitative Criteria.

Stage 2: Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

In order to be eligible for evaluation, the tenderer shall meet all the mandatory requirements.

The evaluation of tenders will be based on the tenderer's ability to meet the requirements. A weighted score card approach will be used to evaluate the tenders against the Employer's requirements. The following scoring method will be used in general. It will be specified where other scoring methods is used.

Table 1: Scoring Method

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

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

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3.1 TECHNICAL EVALUATION THRESHOLD

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

3.2 TET MEMBERS

The full time core technical evaluation team that will be reviewing the technical returnable will consist of the following team members (in-line with Technical Evaluation Procedure 240-48929482):

Table 2: Core TET Members

TET number	TET Member Name	Designation
TET 1	Yamkela Mgwebi	Duvha PS: WTP Engineer
TET 2	Sumayyah Sulliman	Chief Engineer Chemical Engineering - Generation
TET 3	Lethukuthula Ndwandwe	Duvha PS: C&I Engineer
TET 4	Nomfundo Mdlokovana	Duvha PS: C&I Engineer
TET 5	De Villiers Moll	Duvha PS: Senior Engineer
TET 6	Sibonokuhle Tapala	Duvha PS: Senior Engineer

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Valid ISO 3834-2 Certification required. Complete certification (all pages) of the valid ISO 3834-2 certificate must be submitted, and it must clearly indicate certification for the following Design Codes as a minimum: BS EN 13480; BS EN 13445 or P5500 as well as the following Material Groups as a minimum: 1, 11 and 8 according to ISO 15608 for which the Contractor is declared competent.	The Contractor submits proof of a valid (not expired) BS EN ISO 3834-2 certification (all pages) with the tender.	This criterion is required to ensure that the contractor is competent to do welding on the required scope of work
2.	Professional registration of engineers for each disciplines (Mechanical, Chemical, C&I and Electrical) design engineers are required to be a professionally recognised/registered engineer/technologist with ECSA. NB: Cancelled or Inactive ECSA status will be considered as no submission	Each of the lead disciplines (Mechanical, Chemical and C&I design engineers are required to be a professionally recognised/registered engineer/technologist with ECSA.	This is a level one plant and it is required that staff be registered to ensure design is done by competent engineers.
2.1	Mechanical Engineer	Submit ECSA certificate of a PROFESSIONALLY REGISTERED ENGINEER/TECHNOLOGIST FOR <ul style="list-style-type: none"> • Mechanical Scope • Chemical Scope • Control & Instrumentation Scope • Electrical Scope 	
2.2	Chemical Engineer		
2.3	Control & Instrumentation Engineer		
2.4	Electrical Engineer		
3.	The Sulphuric Acid Storage and Dilution System is controlled via the Water treatment Plant Control system. The Water Treatment Plant (WTP) Control System is ABB Symphony Infi90 DCS and 800xA HMI. The tenderer must demonstrate intent to interface the Sulphuric Acid Storage and Dilution System with the ABB Symphony Infi90 DCS and 800xA HMI.		The Control and Instrumentation scope of work must be implemented by a person that can prove that they received the required training on the installed base (ABB Symphony Infi90 DCS and ABB 800xA HMI) or OEM of the ABB Symphony Infi90 DCS and ABB 800xA HMI. Alternatively, the C&I scope must be implemented by a person who can prove that they have experience on the ABB Symphony Infi90 DCS and ABB 800xA HMI. Traceable evidence must be provided to prove the experience.

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3.4 QUALITATIVE CRITERIA EVALUATION

During the tender evaluations the following table shall be used by the TET members to score each criterion on a scale of 0 to 5 as per Table 5.

Table 4: Qualitative Evaluation Criteria

Score	(%)	Definition
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
Note 1: The scoring table does not allow for scoring of 1 and 3. Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.		

Table 4 indicated the qualitative technical evaluation criteria that shall be used by the technical tender evaluation team.

Table 5: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Floor (0)	Kick in (2)	Average(4)	Calling(5)
CONTRACTORS EXPERIENCE (20%)							
1.1 CONTRACTOR EXPERIENCE The main contractor and/or intended subcontractor(s) as applicable and listed in the Invitation to Tender, Annexure B - Tenderer's Particulars, that will be performing the greater quantity of the site work must have experience in chemical dosing system related plant refurbishment and/or installation and commissioning projects.	At least four (4) previous or current projects that meet the minimum requirements should be referenced and submitted. For each project that is referenced the following must be included in the summary as a minimum: 1. Title with short description of the project scope of work 2. Contract or order number 3. Signed agreement page(s) or signed completion certificate(s) 1. Client name(s) and contact details	20	No proof of work experience in chemical dosing system related plant refurbishment and/or installation and commissioning projects.	One (1) chemical dosing system related refurbishment and/or installation and commissioning project.	Three (3) chemical dosing system related refurbishment and/or installation and commissioning project.	Four (4) chemical dosing system related refurbishment and/or installation and commissioning project.	
1.2 COMPANY ORGANOGRAM Company organogram must reflect the current status of company and staff complement (names and Surname). Organogram should indicate the following Key Resources as a minimum the: 1. Site supervisor 2. Mechanical Engineer 3. Chemical Engineer 4. C&I engineers. 5. Electrical Engineer	Submission of Organogram indicating the office staff and site staff. The Contractor clearly indicates in the submitted organogram who the appointed site manager is, as well as other key positions.	20	No organogram or organogram not with the required skills as per list in CV's	Organogram submitted missing three (3) key resources	Organogram submitted missing one (1) key resources	Organogram submitted with all resources included.	

<p>1.3</p>	<p>PERSONNEL EXPERIENCE CV's Company must provide CV's showing number of experience and references of all key resources as indicated above. The CV containing proof of qualifications with copies of certificates, 1. Site supervisor - Diplomas, 2. Engineers - Degrees 3. Technologist – Blech (Diploma) CV containing details of work experience and valid references are submitted as proof of experience.</p>	<p>The following retainables must be submitted as per the criteria 1. CVs with minimum of 3 years experience in the respective positions. 2. Certified copy of qualification for each key resource (Degree & Blech (Diploma).</p>	<p>20</p>	<p>No submission</p>	<p>3 Key resources CV's not submitted. Any submission with less than 1 year experience One Key resource certified Qualifications not submitted.</p>	<p>All key resources submitted with < 3 years any experience in submission. All certified Qualifications submitted.</p>	<p>All key resources CV's submitted with 3 years experience. All certified Qualifications submitted.</p>
<p>1.4</p>	<p>PROJECT PROGRAM The main contractor outlines their proposed project programme which fits within the proposed contract period stipulated in the Employer's enquiry document.</p>	<p>A detailed project programme is submitted that indicates all major activities and milestones and includes the following as a minimum: 1. Project Start date 2. Procurement lead times targeting 12 weeks (3 months). 3. Major milestones including installation and commissioning for each section as outlined on the Employer's enquiry document. 4. Project Completion date 5. In Microsoft (MS) Projects format.</p>	<p>20</p>	<p>Programme not submitted.</p>	<p>Project programme submitted, missing 3 out of the 5 requested information.</p>	<p>Project programme submitted, missing 2 out of the 5 requested information.</p>	<p>A project programme submitted in line with all the requirements</p>
<p>1.5</p>	<p>SCOPE OF WORK COMPLIANCE The contractor fully complies with the NEC3 ECC contract conditions and with the technical scope as set out in the enquiry document. If deviations are listed - the deviations will be evaluated to determine if it is a risk to the project.</p>	<p>Letter stating no deviations or what the deviations are – which will be evaluated</p>	<p>20</p>	<p>Detrimental, technically unacceptable Deviations or Exclusions.</p>	<p style="background-color: #cccccc;">No definitive statement that there are any Deviations or Exclusions OR Acceptable Deviations or Exclusions which may be mitigated by the contractor.</p>	<p>No definitive statement that there are any Deviations or Exclusions OR Acceptable Deviations or Exclusions which may be mitigated by the contractor.</p>	<p>A definitive statement that there are no Deviations or Exclusions.</p>
<p>PROCESS REQUIREMENTS (20%)</p>							

2.1	<p>PROCESS DESIGN COMPLIANCE</p> <p>Cation regeneration:</p> <ol style="list-style-type: none"> Parameters of the acid flowing into the top and bottom of the Cation exchangers are illustrated below. <table border="1" data-bbox="483 625 706 913"> <thead> <tr> <th>Step</th> <th>Where</th> <th>% H₂SO₄</th> <th>Flowrate (m³/h)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Injection A</td> <td>Top</td> <td>0.8</td> <td>21</td> <td rowspan="2">60</td> </tr> <tr> <td>Bottom</td> <td>1.8</td> <td>14.5</td> </tr> <tr> <td rowspan="2">Injection B</td> <td>Top</td> <td></td> <td>21</td> <td rowspan="2">60</td> </tr> <tr> <td>Bottom</td> <td>3.6</td> <td>14.5</td> </tr> </tbody> </table> <ol style="list-style-type: none"> Motive pressure: 240 – 300 kPa Eductor systems must connect to the current system from the tap-offs on the bulk acid manifold <p>Mixed bed regeneration</p> <ol style="list-style-type: none"> 6% sulphuric acid strength Sulphuric acid flow: 10.8 m³/h Motive pressure: 250 – 300 kPa H₂SO₄ Conductivity: 170 mS/cm Eductor systems must connect to the current system from the tap-offs on the bulk acid manifold 	Step	Where	% H ₂ SO ₄	Flowrate (m ³ /h)	Time (min)	Injection A	Top	0.8	21	60	Bottom	1.8	14.5	Injection B	Top		21	60	Bottom	3.6	14.5	Process design must stipulate that it can meet these requirements	20	40	Plant does not achieve these requirements	Plant achieves all the parameters
Step	Where	% H ₂ SO ₄	Flowrate (m ³ /h)	Time (min)																							
Injection A	Top	0.8	21	60																							
	Bottom	1.8	14.5																								
Injection B	Top		21	60																							
	Bottom	3.6	14.5																								
2.2	<p>SCREENING REQUIREMENTS</p> <p>The plant will have screens installed in the event of a leak.</p>	Process design must stipulate that it can meet these requirements		20	No allowances made for	Allowance is made for this requirement																					
2.3	<p>MATERIALS REQUIREMENTS</p> <p>Materials of construction must be compatible with acid and caustic</p>	Process design must stipulate that it can meet these requirements		40	Materials are not compatible	Materials are compatible																					
MECHANICAL REQUIREMENTS (20%)																											

MECHANICAL REQUIREMENTS		WELDING REQUIREMENTS (20%)			
<p>3.1</p> <p>Mechanical interface piping and site installation method statement, the method statement clearly demonstrates the Tenderer's compliance with the full scope of work as detailed in the works. The following is addressed:</p> <ul style="list-style-type: none"> • Schedule • Piping & Instrumentation • All Mechanical Equipment and Interfaces 	<p>Contractor submits a method statement which details the following is addressed:</p> <ul style="list-style-type: none"> • Schedule • Piping & Instrumentation • All Mechanical Equipment and Interfaces 	<p>1.00</p>	<p>No method statement submitted</p>	<p>Partially compliant – missing some information</p>	<p>100% compliant with all the information included</p>
<p>4.1</p> <p>WELDING CONTRACTORS WELDING QUALIFICATIONS</p> <p>Qualified Welding Procedure Specifications (WPS) and Welding Procedure Qualification Record (WPQR) to be issued as examples for the following materials:</p> <ol style="list-style-type: none"> 1. Dissimilar material pipe butt weld joint for Stainless Steel (Group 8.1) to CarbonSteel (Groups 11.1 or 1.1 or 1.2) (WT must be =>6mm) 2. Carbon steel pipe butt weld joint (Group 1.1) to itself (WT must be =>6mm) 3. Pipe butt weld joint for Stainless Steel(Group 8.1) to itself (WT must be =>6mm) <p>(All WPQR to be signed off by IWE/IWT and AIA; All destructive and non-destructive test results as required by the welding code (BS EN 15614-1) must be submitted as proof of qualification.)</p>	<p>Qualified Welding Procedure Specifications (WPS) and Welding Procedure Qualification Record (WPQR) to be issued as examples for the following materials:</p> <ol style="list-style-type: none"> 1. Dissimilar material pipe butt weld joint for Stainless Steel (Group 8.1) to CarbonSteel (Groups 11.1 or 1.1 or 1.2) (WT must be =>6mm) 2. Carbon steel pipe butt weld joint (Group 1.1) to itself (WT must be =>6mm) 3. Pipe butt weld joint for Stainless Steel (Group 8.1) to itself (WT must be =>6mm) <p>(All WPQR to be signed off by IWE/IWT and AIA; All destructive and non-destructive test results as required by the welding code (BS EN 15614-1) must be submitted as proof of qualification.)</p>	<p>20</p>	<p>no information provided</p>	<p>1 of the WPS & WPQR submitted are correct and meet stated requirements.</p>	<p>2 of the WPS & WPQR submitted are correct and meet stated requirements.</p>
<p>4.1</p> <p>Qualified Welding Procedure Specifications (WPS) and Welding Procedure Qualification Record (WPQR) to be issued as examples for the following materials:</p> <ol style="list-style-type: none"> 1. Dissimilar material pipe butt weld joint for Stainless Steel (Group 8.1) to CarbonSteel (Groups 11.1 or 1.1 or 1.2) (WT must be =>6mm) 2. Carbon steel pipe butt weld joint (Group 1.1) to itself (WT must be =>6mm) 3. Pipe butt weld joint for Stainless Steel(Group 8.1) to itself (WT must be =>6mm) <p>(All WPQR to be signed off by IWE/IWT and AIA; All destructive and non-destructive test results as required by the welding code (BS EN 15614-1) must be submitted as proof of qualification.)</p>	<p>Qualified Welding Procedure Specifications (WPS) and Welding Procedure Qualification Record (WPQR) to be issued as examples for the following materials:</p> <ol style="list-style-type: none"> 1. Dissimilar material pipe butt weld joint for Stainless Steel (Group 8.1) to CarbonSteel (Groups 11.1 or 1.1 or 1.2) (WT must be =>6mm) 2. Carbon steel pipe butt weld joint (Group 1.1) to itself (WT must be =>6mm) 3. Pipe butt weld joint for Stainless Steel (Group 8.1) to itself (WT must be =>6mm) <p>(All WPQR to be signed off by IWE/IWT and AIA; All destructive and non-destructive test results as required by the welding code (BS EN 15614-1) must be submitted as proof of qualification.)</p>	<p>50</p>	<p>1 of the WPS & WPQR submitted are correct and meet stated requirements.</p>	<p>2 of the WPS & WPQR submitted are correct and meet stated requirements.</p>	<p>100% compliant with all the information requested</p>

WELDING CONTRACTORS IWT/IWE CERTIFICATE		25		25		25		25		25	
4.2	Proof of the welding contractor's IWT/IWE certificate. If IWE/IWT is subcontracted, proof of the agreement letter between the company to be submitted as well as the IWT/IWE certificate. If permanently employed by the contractor a letter of employment must be submitted with the qualification certificate.	Proof of the welding contractor's IWT/IWE certificate. If IWE/IWT is subcontracted, proof of the agreement letter between the IWT/IWE and the company to be submitted as well as the IWT/IWE certificate. If permanently employed by the contractor a letter of employment must be submitted with the qualification certificate.	no information provided	Proof of qualification with no letter.	Proof of the welding contractor's IWT/IWE Certificate with letter.						
4.3	Proof of the welding inspector's qualifications, i.e. SAIW Welding and Fabrication Inspector Level 2 or IIW International Welding Inspector: Comprehensive (IW- C) or IIW International Welding Inspector: Standard (IW- S) certificate. If inspector is subcontracted, proof of the agreement letter between the inspector and the company also to be submitted if permanently employed by the contractor a letter of employment must be submitted with the qualification certificate.	Proof of the welding inspector's qualifications, i.e. SAIW Welding and Fabrication Inspector Level 2 or IIW International Welding Inspector: Comprehensive (IW- C) or IIW International Welding Inspector: Standard (IW- S) certificate. If inspector is subcontracted, proof of the agreement letter between the inspector and the company also to be submitted. If permanently employed by the contractor a letter of employment must be submitted with the qualification certificate.	no information provided	Proof of qualification with no letter.	Proof of qualification provided with letter.						
CONTROL AND INSTRUMENTATION REQUIREMENTS (20%)											
5.1	ANALYSER REQUIREMENTS The following instruments are provided on the final dilution streams: 1. Conductivity 2. Flow	Process design must stipulate that it can meet these requirements	20	15	15	15	15	15	15	15	15
5.2	TESTING OF ANALYSERS ATESKOM RT&D The analysers that will be supplied must have been tested, evaluated, and approved by Eskom Research, Testing and Development (RT&D). The tenderer provides a project method statement highlighting how the tenderer intends to execute the C&I scope of work including emergency protection of the dosing system.	Proof must be submitted that all of the proposed Conductivity analyser have been tested, evaluated, and approved by Eskom RT&D. Provide the method statement. The method statement must also stipulate how the system will be protected if the requirements of conductivity and flow are not met	20	15	15	15	15	15	15	15	15
5.3	Compliance to C&I requirements	The main Contractor or Subcontractor shall confirm compliance to the full C&I scope of work for the Works.	35	35	35	35	35	35	35	35	35
				NON-	COMPLIANT WITH ASSOCIATED						

		<ol style="list-style-type: none"> 1. Compliance to scope of work, 2. Intend to undertake full scope of work, 3. Compliance to standards and specifications. <p>Alternatively, motivate for any deviation</p>		35	<p>Unacceptable conditions.</p> <p>TOTALLY DEFICIENT OR NON- RESPONSIVE</p>	<p>COMPLIANT</p> <p>Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions.</p>	<p>QUALIFICATIONS</p> <p>·Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR; Acceptable conditions.</p>	<p>Meet technical requirement(s) /AND No foreseentechical risk(s) in meeting technical requirements.</p>
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4. TET MEMBER RESPONSIBILITIES

Table 6: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1 - ISO 3834-2 Certification.					X	X
2.1 - Professional registration of Mechanical Engineer	X	X				
2.2 - Professional registration Chemical Engineer/Technologist	X	X				
2.3 - Professional registration Electrical Engineer/Technologist	X					
2.4 - Professional registration Electrical Engineer/Technologist (C&I)			X	X		
3 – Experience in Symphony Infi90 DCS and 800xA HMI.			X	X		

Tender Technical Evaluation Strategy for Duvha Power Station Sulphuric Acid Storage and Dilution System

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Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
General Requirements						
1.1	X	X				
1.2	X	X				
1.3	X	X				
1.4	X	X				
1.5	X	X				
Process Requirements						
2.1	X	X				
2.2	X	X				
2.3	X	X				
Mechanical Requirements						
3.1	X	X				

Welding Requirements						
4.1					X	X
4.2					X	X
4.3					X	X
Control and Instrumentation Requirements						
5.1				X	X	
5.2				X	X	
5.3				X	X	
5.4				X	X	

4.1 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

4.1.1 Risks

Table 7: Acceptable Technical Risks

Risk	Description
1.	Alternative solutions with the same or better performance

Table 8: Unacceptable Technical Risks

Risk	Description
1.	Exclusions of scope specified in the employers requirements
2.	Unclear staff organogram. I.e. the staffing plan is weak not showing clarity in allocation of tasks and responsibilities
3.	Exclusion of a project specific schedule

4.1.2 Exceptions / Conditions

Table 9: Acceptable Technical Exceptions / Conditions





Risk	Description
1.	Accept deviation with technical qualification

Table 10: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation without technical qualification not accepted

5. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Sumayyah Sulliman	Chief Engineer Chemical Engineering - Generation	
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6. REVISIONS

Date	Rev.	Compiler	Remarks
September 2022	00	NP Muifha	Tender evaluation strategy for Sulphuric Acid Storage and Dilution System
October 2023	01	T Masethe	Second Draft
August 2024	02	Y Mgwebi	TET members Changed Mandatory Evaluation criteria 3 revised.
May 2026	03	Y Mgwebi	Document revised to be more clearer on the following sections – Welding requirements.

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7. DEVELOPMENT TEAM

All Technical Evaluation Team Members were involved with the development of this document.

8. ACKNOWLEDGEMENT

Not applicable

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