Eskom	Strategy	Generation Engineering

Title:	**Tender Technical Evaluation Strategy for Medupi N2 Generating Plant, Integration of N2 and H2 plants**	Unique Identifier:	**348-9975758**
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Compiled by	Functional Responsibility	Authorised by
….pp……..	……..	……..
Matswele Molabe	**Zak Jiyane**	**Rofhiwa Nemutandani**
Mechanical Engineer	**Medupi Project Engineering Design Work Lead**	**Medupi Project Engineering Manager**
Date: 10/09/2025	Date: 2025-09-11	Date: 11/09/2025

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FIGURES

No table of figures entries found.

TABLES

1. INTRODUCTION

A invite will be issued calling for interested parties to participate in the tender process for the review, evaluation, design, updating and acceptance of existing Engineering design documents, design, procurement, fabrication, manufacture, factory testing, storage, delivery to Medupi Power Station site, off-loading, erection, installation, site testing, cold and hot commissioning, project management, quality control of a fully functional Medupi Nitrogen and Hydrogen Generating Plants at Medupi Power Station. This document sets out the method and criteria that will be used to evaluate the tenders that will result from this pre-qualification invite.

2. SUPPORTING CLAUSES

2.1 SCOPE

This strategy defines the Technical Evaluation Team (TET), their responsibilities and the criteria to be used to evaluate the Medupi Hydrogen and Nitrogen Generating Plants and their integration Project.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria and Qualitative Evaluation Criteria as well as TET members' responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This strategy document applies to the engineering team working on the Medupi Hydrogen and Nitrogen Generating Plants and their integration Project.

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 Generation Tender Technical Evaluation Procedure.

[2] 32-1034 Eskom Procurement Policy.

2.2.2 Informative

[3] 348-101113183 Medupi Hydrogen Generating Plant SOW.

[4] 348-10113180 Medupi Power Station H2 Bulk Storage Vessels SOW

[5] 348-1012337 Medupi Nitrogen Generating Plant, Integration of Hydrogen and Nitrogen Plants SOW

[6] 240-53113685 Generation Design Review Procedure

2.3 DEFINITIONS

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Definition	Description
	Not Applicable

2.3.1 Disclosure Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
C&I	Control & Instrumentation
C&I	Control & Instrumentation
DCS	Distributed Control System
ECSA	Engineering Council of South Africa
LDE	Lead Discipline Engineer
LPS	Low Pressure Services
LV	Low Voltage
NTT	Notes To Tender
OEM	Original Equipment Manufacturer
PLC	Programmable Logic Computer
TES	Technical Evaluation Strategy
TET	Technical Evaluation Team
VDSS	Vendor Document Submission Schedule

2.5 ROLES AND RESPONSIBILITIES

Compiler	The document compiler is responsible for ensuring that this document is up-to-date and that this document is not a duplication of an existing, documentation regarding.
Functional Responsibility (EDWL)	The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorization.
Authorizer (PEM)	The document authorizer is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives and requirements. He/she shall authorize the release and application of the document.
TET members	Provide input to the technical tender evaluation strategy and associated engineering activities.

2.6 PROCESS FOR MONITORING

The primary process for monitoring will be governed by Generation Design Review Procedure (240-53113685), this entails assuring that the design achieves the requirements set out in this document.

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable.

3. TENDER TECHNICAL EVALUATION STRATEGY

Table 1: Scoring Method

SCORE	Heading	Heading
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**

Table 2: Evaluation Scores

Technical (100%)	
5.1 General	10%
5.2 Mechanical	30%
5.3 Control & Instrumentation	25%
5.4 Electrical	10%
5.5 Civil	15%
5.6 Configuration and Documentation Management	10%
TOTAL 100%	
Overall minimum 70% threshold for qualification	

Table 3: TET Members

TET number	Designation	Name and Surname
TET 1	EDWL: Medupi Project	Zak Jiyane
TET 2	Manager: Configuration Management C&I Engineer	Mandla Patrick Nkosi
TET 3	LDE: C&I Engineering	Mdu Shozi
TET 4	Electrical Engineering LDE	Banele Mbendane
TET 5	Senior Electrical Engineer	Tshilidzi Bruwer
TET 6	Engineer: Civil Engineering	Justin Padiachy
TET 7	Chief Technologist Civil: Civil Engineering	Willie Beetge
TET 8	LPS Engineering LDE	Morapeli Matjoi
TET 9	Senior Engineer	Jan Strydom
TET 10	Chemical Engineer	Mahlatse Bosega

4. MANDATORY TECHNICAL EVALUATION CRITERIA

To be eligible for evaluation the tenderer shall meet the gatekeepers specified on the table below.

Table 4: Mandatory Evaluation Criteria

	Mandatory Technical Criteria Description	Source of Evidence	Motivation for use of Criteria
1.	ECSA Professional Engineering Certification: Professional Engineer/Technologist who is accountable for the design, construction monitoring and certification of applicable scope.		Design Integrity
	a) Mechanical	Proof of ECSA registration i.e. Registration number and/or Certificate	
	b) Civil & Structural	Completed/Submitted Competency Declaration Form (refer to Appendix A)	

5. QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

a) The CVs of Key Personnel should have experience which is comparable in nature to the Works specified in this tender.

b) It is a requirement that the key personnel have good communication skills in the English language.

c) Where no information is offered by the Tenderer no points shall be scored.

5.1 GENERAL EVALUATION CRITERIA (10%)

Table 5: Qualitative Evaluation Criteria

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
5.1	**General Evaluation Criteria**	**10%**			
5.1.1	Company's background and experience on design and construction of Gas Generating Plant and distribution plant or similar works. Company's background and experience shall be a minimum of 5-10 years on design, construction and commissioning of Gas generating and distribution plant works, respectively. The sub-contracted companies as part of the main tenderer shall have experience of minimum 5 years on design construction and commissioning of the main aspects or disciplines of the project including but not limited to: • Gas generating plant • Piping system • Electrical • Hazardous installations • Control and Instrumentation		40%	Demonstrate experience on similar projects. Provide signed Testimonials or Completion Certificates for completed projects consisting of the following information: Name of company where project was executed • Project Description • Construction period • Contract value • Contact person	5= 100% = 3 or more completed projects of similar nature and 5 or more years' experience, 100% disciplines covered 4= 80% = 1-2 completed projects of similar nature and 3-5 years' experience, 50% disciplines covered 2 = 40% 1 completed project of similar nature and 1-3 years' experience, 20% disciplines covered 0= 0% = 0 completed projects of similar nature and less than 1 year experience
5.1.2	Compliance to the full scope of work.		40%	• Comprehensive overview of offered solution and concept for integration to existing infrastructure • List of exclusions from	5 = 100% 100% of Tender Returnables with relevant information received AND Meet technical requirement(s)/AND

				the Tender requirements	No foreseen technical risk(s) in meeting technical requirements. 4 = 80% 80% of Tender Returnables with relevant information received AND Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR; Acceptable conditions. 2 = 40% 40% of Tender Returnables with relevant information received AND Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) Unacceptable exceptions AND/OR; Unacceptable conditions. 0 = 0% = TOTALLY DEFICIENT OR NON-RESPONSIVE
5.1.3	Project Execution Plan and Project Programme		20%	Demonstrate how tenderer intend on executing the project by specified target date by providing the following information for evaluation purposes: 1) Provide typical project methodology document detailing how the Tenderer proposes to execute the Works, including de-commissioning, dismantling, transport, design, manufacture, delivery, erection, commissioning and handover. 2) The Tenderer shall indicate how it shall perform the various functions including design, procurement, programming, expediting, inspection, testing, training and commissioning and the locations where the various portions of the Work shall be implemented. 3) Provide organogram of key personnel of the main contractor. Organogram should include Management team, Project Manager, professional engineers approving	

				designers, site personnel for construction monitoring, Project Planner, Configuration - and Document Management and SHEQ team and as minimum. The Tenderer shall also demonstrate how tenderer's Sub-Contractor and suppliers shall interface with the project management team. Typical organogram will include above with responsible person in each role. 4) High level programme with key milestones (design, construction, commissioning and testing).	

5.2 MECHANICAL EVALUATION CRITERIA (30%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
5.2	**Mechanical Evaluation Criteria**	**30%**			
5.2.1	Company experience in the design and construction of piping systems in accordance with ASME B31.1 or 31.3		20%	Description of each of the piping systems which includes the following: • Piping code used. • Desing pressure • Design temperature • Larges pipe size. • Length of largest pipe size. • Site • Customer. • Construction date.	5 = construction in accordance with ASME B31.1 or 31.3 of five category I piping systems with a pipe size of at least DN80, pressure rating of PN16 and pipe length of 200m 4 = construction in accordance with ASME B31.1 or 31.3 of two category I piping systems with a pipe size of at least DN80, pressure rating of PN16

					and pipe length of 200m 2 = construction in accordance with ASME B31.1 or 31.3 of two piping systems. 0 = No experience or inadequate information supplied.
5.2.2	Company experience in the installation and commissioning of compressors and dryers		10%	Description of each of the installations which includes the following: • Flowrate. • Discharge pressure • Site • Customer. Commissioning date.	4 = five installations of compressors and dryers with a flowrate of at least 200 N m^3/hr 4 = two installations of compressors and dryers with a flowrate of at least 200 N m^3/hr 2 = two installations of compressors and dryers 0 = No experience or inadequate information supplied.
5.2.3	Company experience in the installation of pressure vessels		10%	Description of each of the pressure vessels which includes the following: • Pressure vessel design code. • Design pressure • Vessel size • Site • Customer. • Commissioning date.	5 = five pressure vessels with a size of at least 80 m^3 4 = two pressure vessels with a size of at least 80 m^3 2 = two pressure vessels. 0 = No experience or inadequate information supplied.
5.2.4	Experience of Engineer responsible for the design of the piping systems		5%	Description for each of the piping designs which includes the following: • Fluid • Design pressure. • Nominal Size (DN) • Piping length • ECSA registration number. • Site • Customer. • Commissioning date.	5 = Five (5) designs in accordance with ASME B31.1 or B31.3 for a category I non-dangerous gas piping system with a piping length of at lease 200 m while registered as a Professional Engineer/Technologist and which have been successfully commissioned. 4 = Two (2)) designs in accordance with ASME B31.1 or B31.3 for a category I non-dangerous gas piping system with a piping length of at least 200 m while registered as a Professional

					Engineer/Technologist and which have been successfully commissioned. 2 = Two (2) designs in accordance with ASME B31.1 or B31.3 for a piping system and which have been successfully commissioned. 0 = No experience or inadequate information supplied.
5.2.5	Experience of Engineer responsible the nitrogen system flow analysis		5 %	Description for each of the flow analyses which includes the following: • Software package used. • Fluid • Maximum flowrate. • Node diagram. • Results (can be indicated on the flow diagram) • ECSA registration number. • Site • Customer. • Date.	5 = Flow analyses for five (5) different systems system conveying a gas at a flowrate of at least x Nm3/hr with three delivery point while registered as professional Engineer/Technologist. 4 = Flow analyses for two different systems system conveying a gas at a flowrate of at least x Nm3/hr with three delivery point while registered as professional Engineer/Technologist. 2 = Flow analyses for two different systems system conveying a gas at a flowrate of at least x Nm3/hr. 0 = No experience or inadequate information supplied.
5.2.6	Company experience in the design installation and commissioning of the deluge fire protection system in accordance with NFPA 15		10%	Description of each of the deluge fire protection system which includes the following: • Flowrate. • Discharge pressure • Site • Customer. • Commissioning date.	5 = five (5) deluge fire protection systems in accordance with NFPA 15 with a flowrate of 1000 l/min. 4 = two (2) deluge fire protection systems in accordance with NFPA 15 with a flowrate of 1000 l/min. 2 = two (2) deluge fire protection systems in accordance with NFPA 15. 0 = No experience or inadequate information supplied.

5.2.7	Perform Engineering Risk analysis		20%	Provide a HAZOP, FMECA and RAM Report of similar works.	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
5.2.8	Develop design documentation compliant to requirements. Including but not limited to: • P&ID and GA's • operating philosophy • integrated design report • spares list		20%	Examples of reviewed, Updated and Professionally certified/signed design documentation of similar works	

5.3 CONTROL AND INSTRUMENTATION EVALUATION CRITERIA (25%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
5.3	**Control and Instrumentation Evaluation Criteria**	**25%**			
5.3.1	The bidder shall provide a typical network architecture diagram clearly illustrating the integration between the N2/H2 PLC system and third-party SCADA/DCS platforms.		30	The diagram must include: • Identification of all major components (PLCs, SCADA/DCS systems, gateways, I/O modules, etc.)	5 - Comprehensive and professionally presented drawing. Clearly illustrates all major components, communication protocols (Profibus/Modbus), and interface points. Demonstrates strong understanding and experience in PLC to

				• Communication protocols used (e.g., Profibus, Modbus) • Interface points and data flow paths This drawing must reflect the bidder's understanding and experience in implementing such integrations and serve as evidence of technical capability.	SCADA/DCS integration. 4 - Drawing is clear and relevant, showing appropriate interfacing between PLC and SCADA/DCS systems. Protocols (Profibus/Modbus) are identified, and major components are included, but some technical depth or completeness is missing. 2 - Drawing submitted but lacks clarity, detail, or relevance. Limited indication of protocol usage (Profibus/Modbus) and poor representation of interfacing between PLC and third-party systems. 0 - No network architecture drawing submitted, or submission is irrelevant/incomplete and does not demonstrate any understanding of PLC to SCADA/DCS integration.
5.3.2	Professional Registered C&I/Electronics Technologist/ Engineer with a track record of 5 completed projects and 5 years professional working experience as a minimum; for design, construction, and commissioning of PLCs and HMI/DCS/SCADA system.		30	1. Copy of qualifications (Certificates) and copy ECSA Certificate (Pr Eng/ Pr Technologist) 2. CV with reference to 5 completed projects and 5 years professional working experience for design, construction, and commissioning of PLCs and HMI/DCS/SCADA systems.	5 – Proof of qualification submitted. CV submitted and does meet the minimum requirements and required minimum experience in control and instrumentation project(s) on: Integration of PLC to SCADA/HMI/DCS. 5 or more than 5 years' experience. Professional registration)

					4 – Proof of qualification submitted. CV submitted and does meet the minimum requirements and required minimum experience in control and instrumentation project(s) on: PLC and SCADA/HMI/DCS integration design and commissioning. More than 3 less than 5 years. ECSA Candidate (or Professional registration) 2 – CV does meet the minimum requirements but not enough experience. Less than 3 years relevant experience, CV submitted and proof of qualification. ECSA candidate. 0 – CV does not conform to the tender requirements. CV not submitted, no proof of qualification submitted. Not an ECSA Candidate
5.3.3	Extensive experience in integrating PLC's with third-party control systems/DCS/SCADA systems using Profibus or Modbus industrial communication protocols.		20	Signed completion certificates or signed reference letters showing the following information: 1. Detailed scope/project description of the project which included the integration of PLCs to	5 - Successfully completed more than 3 projects involving the integration of PLCs with third-party DCS/SCADA systems via Profibus or Modbus.

				other third-party control systems/DCS/SCADA. 2. Contactable references from engineering managers or project leads who oversaw the integration work. 3, Completion date of the works	4 - Successfully completed 2 to 3 projects involving the integration of PLCs with third-party DCS/SCADA systems via Profibus or Modbus. 2 - Successfully completed 1 project involving the integration of PLCs with third-party DCS/SCADA systems via Profibus or Modbus. 0 - TOTALLY DEFICIENT OR NON-RESPONSIVE
5.3.4	CBMS Engineer: Minimum B.Eng. /B.Sc. Eng. / B.Tech in Electrical/ Electronic Engineering. Candidate ECSA Registration. Professional Registration is an advantage. 3-5yrs experience in control and instrumentation project(s) on: Building Management Systems (i.e. CCTV, Biometric Access Control, CBMS).		20	1. CV with relevant experience and tracible references 2. Proof of Qualifications. 3. Professional Registration. (ECSA registration number or Certificate)	5 – Proof of qualification submitted. CV submitted and does meet the minimum requirements and required minimum experience of Building management systems. 5 or more than 5years experience. Professionally registered) 4 - Proof of qualification submitted. CV submitted and does meet the minimum requirements and required minimum experience of Building management systems. More than 3 less than 5 years. ECSA Candidate (or Professional registration) 2 - CV does meet the minimum requirements

					but not enough experience. Less than 3 years relevant experience, CV submitted and proof of qualification. ECSA candidate 0 - CV does not conform to the tender requirements. CV not submitted; no proof of qualification submitted. Not an ECSA Candidate.

5.4 ELECTRICAL EVALUATION CRITERIA (10%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
5.3	**Electrical Evaluation Criteria**	**10%**			
					5 = 100% = COMPLIANT Meet technical requirement(s) /AND No foreseen technical risk(s) in meeting technical requirements. 4 = 80% = COMPLIANT WITH ASSOCIATED QUALIFICATIONS
5.4.1	Nitrogen Plant Power distribution board design review and evaluation		30%	Updated or proposed power distribution board design or Single line for the supply of H2 and N2 plant in both including estimated power consumption in editable format and PDF	
5.4.2	Completed technical schedule A&B LV switchgear (MCC)		30%	Completed technical	

				schedule A&B for LV switchgear (MCC). Example of cable sizes to be used in the plant and for what equipment.	Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR;
5.4.3	Method statement for manufacture, design, delivery and installation of all electrical equipment		40%	The method statement should contain the following: a) Typical Quality control plans (e.g. Inspection and Test Plans for electrical distribution board, cables, earthing, small power and lighting, IP rating certification for outdoor installations etc.)	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

5.5 CIVIL EVALUATION CRITERIA (15%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
5.5	**Civil Evaluation Criteria**	**15%**			
5.5.1	Company Background and experience in Design and Construction similar to the civil and structural works outlined in the SoW		40%	Refer to detailed **APPENDIX B** and SoW	Refer to detailed **APPENDIX B**
5.5.2	CV of lead civil and structural ECSA registered professional engineer (Pr.Eng)		30%	Refer to detailed **APPENDIX B** and SoW	Refer to detailed **APPENDIX B**
5.5.3	High level Design methodology		15%	Refer to detailed **APPENDIX B** and SoW	Refer to detailed **APPENDIX B**

5.5.4	High level Construction methodology		15%	Refer to detailed **APPENDIX B** and SoW	Refer to detailed **APPENDIX B**

5.6 CONFIGURATION EVALUATION CRITERIA (10%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
5.6	**Configuration and Document Management Evaluation Criteria**	**25%**			
5.6.1	The contractor needs to provide the configuration management plan that will be implemented in line with the ISO 10007 Guidelines for Configuration Management.		25%	Provide Configuration Management	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
5.6.2	The contractor must provide a portfolio of evidence that reflects quality of coding. The contractor's portfolio should contain a minimum of 3 years but not limited to evidence stating the number of years of experience they have with regards to coding. If a contractor feels they do not meet the minimum requirements, they can submit the portfolio of the sub- contractor that they will definitely use.		25%	Provide Portfolio of evidence reflecting number of years of Plant Codification experience.	
5.6.3	The contractor needs to provide a stipulated Handover Plan, stating when and how they plan, submitting Documentation to Eskom, in line to the agreed Vendor Document Submission Schedule (VDSS).		50%	Provide VDSS	

	(Documentation submission during project phases)				

6. 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 8**	**TET 9**	**TET 10**
5 (a)	X							X	X	
5 (b)						X	X			
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TET 6**	**TET 7**	**TET 8**	**TET 9**	**TET 10**
5.1 General	X	X	X	X	X			X	X	X
5.2 Mechanical	X							X	X	X
5.3 C&I		X	X							
5.4 Electrical				X	X					
5.5 Civil						X	X			
5.6 Config	X	X								

7. FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

7.1 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 employer's 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.	Exclusion of the pricing/quotation of the manufacturing of the Vessels

7.2 EXCEPTIONS / CONDITIONS

Table 9: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Accept deviation with technical qualifications

Table 10: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation without technical qualifications not accepted

8. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation	Signature
Morapeli Matjoi	Low Pressure Services LDE	
Jan Strydom	Low Pressure Services Senior Engineer	
Mdu Shozi	Control and Instrumentation LDE	
Mandla Patrick Nkosi	Configuration and C&I Engineer	
Banele Mbendane	Electrical LDE	
Tshilidzi Bruwer	Electrical Senior Engineer	
Justin Padiachy	Civil and Structural Engineer	
Willie Beetge	Civil and Structural Chief Technologist	
Mahlatse Bosega	Chemical LDE	
Zak Jiyane	Engineering Design Work Lead	

8.1 DISTRIBUTION ONLY

This document is to be send for distribution and information only to the following:

Name & Surname	Designation
Vivagen Govender	Medupi NEC Project Manager
Mannie Van Staden	Electrical Corporate Specialist
Luthando Sizani	Quantity Surveyor
Liyanda Mjingwana	Medupi NEC Projects

Name & Surname	Designation
Gabriel Mavhungu	Medupi NEC Employer Representative

9. REVISIONS

Date	Rev.	Compiler	Remarks
September 2025	1	M. Molabe/Z. Jiyane	First Draft.

10. DEVELOPMENT TEAM

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

- Mdu Shozi
- Mandla Patrick Nkosi
- Banele Mbendane
- Justin Padiachy
- Willie Beetge

11. ACKNOWLEDGEMENTS

- Insert text here.

12. APPENDIX

12.1 APPENDIX A: COMPETENCY DECLARATION FORM

COMPETENCY DECLARATION FORM

Medupi Hydrogen and Nitrogen Plant Technical Specification and Scope of Work (348-1012337)

12.1.1 Declaration as a competent person in terms of Regulation A19 of the National Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977)

Consideration as a Competent Person in terms of Regulation A19

Section 1: Nature of the project

Nature of the project: Ensuring design intent is achieved and professional certification of existing and new constructed works, changes and additions to works as defined by the scope of work.

12.1.2 Section 2: Details of competent registered professional who will perform the duties of designer for the works

Full name of competent registered professional:

Registration council:

Professional registration number:

(Insert number and ECSA)

12.1.2.1.1 Consultancy I am representing:

I will be performing the role/s of

Role as per mandatory criteria (4(1)		
1	*Structural Design Engineer*	
2	*Civil Services Design Engineer*	

(Tick the relevant box to confirm professional accountability and role to be executed/performed. Each registered professional to complete a separate declaration form (APPENDIX A))

Section 3: Declaration by competent registered professional

I, ……*(Full name)*

Telephone number:……

Declare that:

1. I fully understand the complete scope of work as defined in the SoW document No. 348- 1012337.
2. I am trained, educated and experienced to undertake the rational design/assessment/investigations and associated construction monitoring of the works defined in the SoW.
3. I have the necessary competency and contextual knowledge to perform the professional services as defined in the SoW:
    - Assessment/analysis of constructed buildings/structures/systems
    - Perform testing/investigation/assessment to assess if design intent had been achieved during construction on already constructed works as defined in the SoW.
    - Conduct risk assessments and provide risk mitigation measure for works where applicable as defined in the SoW.
    - Ensure design intent is achieved on works to be constructed as indicated in the SoW.
4. I satisfied the necessary and relevant definition of competent person contained in SANS 10400, Construction Regulations and Engineering Council of South Africa.
5. My professional registration is current and not suspended or terminated and is appropriate in relation to the services as defined by the scope of work.
6. I am intending to provide professional services as designer of the works defined in the scope of work.
7. I shall provide my professional services as designer with associated duties as indicated in the Construction Regulations and in accordance with ECSA Code of Conduct.
8. All the information provide is to the best of my knowledge true and correct.

Signature of registered competent professional:……

Date: .....

NOTE: *ALL SECTIONS OF THE DOCUMENT MUST BE COMPLETED IN FULL. NO SECTION/PART CAN BE MARKED "N/A" AND THIS DECLARATION FORM MUST BE SIGNED BY THE RELEVANT PROFESSIONAL CONFIRMED FOR THIS PROJECT.*

12.2 APPENDIX B: CIVIL SCORE CRITERIA AND BREAKDOWN

	Qualitative Technical Criteria Description		Tender Returnable required from Tenderer	Reference to Functional Specification / Tender Returnable	Criteria Weighting	Criteria Sub Weighting	0	2	4	5
					(%)	(%)	TOTALLY DEFICIENT OR NON-RESPONSIVE	NON-COMPLIANT	COMPLIANT WITH ASSOCIATED QUALIFICATIONS	COMPLIANT
APPENDIX B										
5.5	**Civil and Structural Criteria**				**15%**					
5.5.1		**Company Background and experience in Design and Construction similar to the civil and structural works outlined in the SoW:**				**40%**				
	5.5.1.1	**Reference 1** Provide a minimum of 3 Testimonial certificates or Completion Certificates for previous and similar works successfully completed. Note: In the case of a Sub-contractor company performing works, evidence/contactable references can be aligned to the Sub-Contractor company.	1.Provide Testimonial certificates or Completion Certificates for at least 3 completed projects similar in complexity to this project and SoW (348-9975757). The testimonial certificates or completion certificates must (as a minimum) consist of the following aspects information: a)Name of company where project was executed b)Project Description c)Construction period d)Verifiable reference (Contact person) **Important Note 1:** Appointment letters will not be considered. **Important Note 2:** If item b, c and d is not indicated on the testimonial certificate or completion certificates, the Tender shall provide the information as an attachment to the testimonial certificate or completion certificate. **Important Note 3:** If the project description is not provided or not comparable to the SoW (348-9975757), the testimonial or completion certificate will not be considered.	Refer to SoW 348-1012337		**10,00%**	No Contactable reference/ No projects/No Testimonial Certificate/No Completion Certificate provided / Non responsive	Contactable Reference/Project 1/ Testimonial Certificate/Completion Certificate provided but not aligned/similar to project (i.e. Project description)	Contactable Reference/Project 1/ Testimonial Certificate/Completion Certificate provided but only one aspect covered and similar to project	Contactable Reference/Project 1/ Testimonial Certificate/Completion Certificate provided and more than one aspect covered and similar to project
	5.5.1.2	**Reference 2** Provide a minimum of 3 Testimonial certificates or Completion Certificates for previous and similar works successfully completed. Note: In the case of a Sub-contractor company performing works, evidence/contactable references can be aligned to the Sub-Contractor company.				**10,00%**	No Contactable reference/ No projects/No Testimonial Certificate/No Completion Certificate provided / Non responsive	Contactable Reference/Project 2/ Testimonial Certificate/Completion Certificate provided but not aligned/similar to project(i.e. Project description)	Contactable Reference/Project 2/ Testimonial Certificate/Completion Certificate provided but only one aspect covered and similar to project	Contactable Reference/Project 2/ Testimonial Certificate/Completion Certificate provided and more than one aspect covered and similar to project
	5.5.1.3	**Reference 3** Provide a minimum of 3 Testimonial certificates or Completion Certificates for previous and similar works successfully completed. Note: In the case of a Sub-contractor company performing works, evidence/contactable references can be aligned to the Sub-Contractor company.				**10,00%**	No Contactable reference/ No projects/No Testimonial Certificate/No Completion Certificate provided / Non responsive	Contactable Reference/Project 3/ Testimonial Certificate/Completion Certificate provided but not aligned/similar to project(i.e. Project description)	Contactable Reference/Project 3/ Testimonial Certificate/Completion Certificate provided but only one aspect covered and similar to project	Contactable Reference/Project 3/ Testimonial Certificate/ Certificate provided and more than one aspect covered and similar to project
	5.5.1.4	**Reference 4 or more** Provide a minimum of 3 Testimonial certificates or Completion Certificates for previous and similar works successfully completed. Note: In the case of a Sub-contractor company performing works, evidence/contactable references can be aligned to the Sub-Contractor company.				**10,00%**	No Contactable reference/ No projects/No Testimonial Certificate/No Completion Certificate provided / Non responsive	Contactable Reference/Project 4/ Testimonial Certificate/Completion Certificate provided but not aligned/similar to project(i.e. Project description)	Contactable Reference/Project 4/ Testimonial Certificate/Completion Certificate or more provided but only one aspect covered and similar to project	Contactable Reference/Project 4/ Testimonial Certificate/Completion Certificate or more provided and more than one aspect covered and similar to project
5.5.2		**CV of lead civil and structural ECSA registered professional engineer**				**30%**				
	5.5.2.1	CV of Lead Civil and Structural Designer (Pr. Eng)	Provide the CV's of Lead civil and structural Designer with relevant experience level for this project: a)Submit CV of professionally registered lead civil and structural designer. The professional shall have a minimum of 5 years post ECSA registration relevant design and construction monitoring experience with reference to works described in the scope of work (348-9975757). **Important Note 1:** The number of years of experience (relevant to this project) as indicated above must be clearly indicated in the CV. **Important Note 2:** Based on experience and competency, one individual may fulfil multiple roles. This must be clearly defined in the organogram and the same person submitted per mandatory criteria.	Refer to SoW 348-1012337		**30%**	No CV submitted /Non Responsive/ Person is not part of the Company organogram/ Sub Contracted Designer is not part of the Company Organogram	CV with proof of less than 5 yrs. relevant experience. And copies of professional registration certificates and ECSA number contained in CV or submission	CV with proof of more than 5 and less then 10 yrs. relevant experience. And copies of professional registration certificates and ECSA number contained in CV or submission	CV with proof of 10 or more yrs. relevant experience. And copies of professional registration certificates and ECSA number contained in CV or submission
5.5.3		**High level Design methodology**				**15%**				
	5.5.3.1	**Requirement 1 for method statement:** Existing works: High level design methodology (covering as a minimum the needed investigation, compliance testing, analysis and reporting) establishing whether design intent was achieved for existing works	1. Provide a High level design methodology that addresses the following: a) **Existing works**: High level design methodology (covering as a minimum the needed investigation, compliance testing, analysis and reporting) establishing whether design intent was achieved for existing works. b) **New Designs:** High level design methodology that addresses the design philosophy for new works and all integrated works (covering as a minimum the needed integration with existing designs/infrastructure/services, geotechnical assessment, protective measures and investigative/testing works). c) **Monitoring:** Indication of construction monitoring measures to ensure design intent is achieved through progressive reviews and monitoring during the entire project (in accordance with the SoW and Construction Regulations).	Refer to SoW 348-1012337		**6%**	No proposal/ methodology provided or Irrelevant methodology provided.	Design criteria provided but not applicable to project [relevant information]	Some aspects of Design criteria provided and applicable to this project[relevant information]	All aspects of Design criteria provided and applicable to this project [relevant information]
	5.5.3.2	**Requirement 2 for method statement:** New Designs: High level design methodology that addresses the design philosophy for new works and all integrated works (covering as a minimum the needed integration with existing designs/infrastructure/services, geotechnical assessment, protective measures and investigative/testing works).				**6%**	No proposal/ methodology provided or Irrelevant methodology provided.	Design criteria provided but not applicable to project [relevant information]	Some aspects of Design criteria provided and applicable to this project[relevant information]	All aspects of Design criteria provided and applicable to this project [relevant information]
	5.5.3.3	**Requirement 3 for method statement:** Monitoring: Indication of construction monitoring measures to ensure design intent is achieved through progressive reviews and monitoring during the entire project (in accordance with the SoW and Construction Regulations).				**3%**	No proposal/ methodology provided or Irrelevant methodology provided.	Monitoring criteria provided but not applicable to project [relevant information]	Some aspects of Monitoring criteria provided and applicable to this project [relevant information]	All aspects of Monitoring criteria provided and applicable to this project [relevant information]
5.5.4		**High level Construction methodology**				**15%**				
	5.5.4.1	**Requirement 1 for method statement** Construction methodology encompassing new works and the integrating of existing works.	1.Provide a high level construction methodology that addresses the following: a)Construction methodology encompassing new works and the integrating of existing works. b)Provide a typical/sample Inspection Test Plan (ITP)/Quality Control Plan (QCP) for the construction works. c)Quality Control and Quality Assurance Plan aligned to the scope of works for this project	Refer to SoW 348-1012337		**10%**	No proposal/ methodology provided or Irrelevant methodology provided.	Construction criteria provided but not applicable to project [relevant information]	Some aspects of Construction criteria provided and applicable to this project[relevant information]	All aspects of Construction criteria provided and applicable to this project [relevant information]
	5.5.4.2	**Requirement 2 for method statement** Provide a typical/sample Inspection Test Plan (ITP)/Quality Control Plan (QCP) for the construction works.				**2,5%**	No proposal/ methodology provided or Irrelevant methodology provided.	ITP/QCP criteria provided but not applicable to project [relevant information]	ITP/QCP criteria provided and applicable to this project[relevant information]	All aspects of ITP/QCP criteria provided and applicable to this project [relevant information]
	5.5.4.3	**Requirement 3 for method statement** Quality Control and Quality Assurance Plan aligned to the scope of works for this project				**2,5%**	No proposal/ methodology provided or Irrelevant methodology provided.	QC and QA plan criteria provided but not applicable to project [relevant information]	Some aspects of QC and QA plan criteria provided and applicable to this project[relevant information]	All aspects of QC and QA plan criteria provided and applicable to this project [relevant information]