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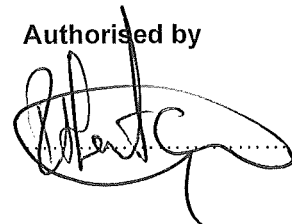
Functional Responsibility



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1. INTRODUCTION

This document defines the strategy for evaluating technical proposals for the design, construction, and professional certification of the Fire and Medical Storage Facility at the Medupi Power Station. The works include the following as defined in the scope of work (348-10084028):

- Design and specification of the building and all associated building services
- Construction of the building and all associated building services
- Supply and installation of equipment and furniture
- Certification of the works as complete by issuing a completion certificate in accordance with the Construction Regulations (most recent edition).

This document sets out the method and criteria that will be used to evaluate the technical proposals that will result from this pre-qualification invite.

2. SUPPORTING CLAUSES

2.1 SCOPE

This strategy defines the TET, their responsibilities, and the criteria to be used to evaluate the technical proposals received.

2.1.1 Purpose

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

2.1.2 Applicability

This strategy document applies to the engineering team working on the Fire and Medical Storage Facility design and construction project, at the Medupi 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.

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2.2.1 Normative

- [1] 240-168966153: Generation Tender Technical Evaluation Procedure
- [2] 32-1034: Eskom Procurement Policy

2.2.2 Informative

- [1] 348-10084028 Technical Specification for the design and construction of the Fire and Medical Storage Facility at the Medupi Power Station

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
CV	Curriculum Vitae
ECSA	Engineering Council of South Africa
EDWL	Engineering Design Work Lead
LDE	Lead Discipline Engineer
PBS	Plant Breakdown Structure
SACNASP	South African Council for natural scientist
SHEQ	Safety, Health, Environmental and Quality
SoW	Scope of Works
TET	Technical Evaluation Team

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 the document's objectives and content.
Functional Responsibility	The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorisation.
Authoriser	The document authoriser is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives, and

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	requirements. He/she shall authorise the release and application of the document.
EDWL	The EDWL is responsible to manage the execution and adherence to this procedure. Typically, on New Build projects the EDWL role is fulfilled by the Lead Discipline Engineer (LDE) and on existing asset projects the EDWL role is fulfilled by the relevant System Engineer / Plant Engineer
Lead Discipline Engineers	Provide input to the technical tender evaluation strategy and associated engineering activities.
Configuration Management Lead	Is accountable for ensuring that the engineering documentation, engineering systems and databases are correctly configured. As part of this role, the Configuration Practitioner is responsible for the development of the configuration management plan; configuration and management of the PBS and the management of plant item Tags.

2.6 PROCESS FOR MONITORING

The primary process for monitoring will be governed by 240-53716769 Tender Technical Evaluation Strategy Template.

2.7 RELATED/SUPPORTING DOCUMENTS

Refer to Section 2.2.

3. TECHNICAL EVALUATION STRATEGY

To be eligible for evaluation, the interested party shall meet all the mandatory requirements.

The evaluation of technical proposals will be based on the interested party's ability to meet the requirements specified in the Medupi Technical Scope of Works. 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.

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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:

Table 2: Evaluation Scores

Technical (100%)	
6.1 General	15%
6.2 Civil Engineering and Structural Work	25%
6.3 Mechanical Fire Protection and Wet Services	10%
6.4 Fire Detection and Access Control	10%
6.5 Electrical Works	10%
6.6 Configuration Management	5%
6.7 HVAC	10%
6.8 Building Works And Architectural Finishes	15%
TOTAL (100%)	
Overall minimum threshold for qualification (70%)	

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4. TET MEMBERS

4.1 REQUIRED TET MEMBERS

Table 3: TET Members

TET number	Designation	Name and Surname
TET 1	Civil Engineer	Avesh Haricharan
TET 2	Civil LDE	Tau Chokoe
TET 3	Chief Technologist: Civil Engineering	Willie Beetge
TET 4	LPS LDE	Hendrick Mathebula
TET 5	HVAC (LPS) Engineer	Morapeli Matjoi
TET 6	Fire (LPS) Engineer	Pimani Mugwambane
TET 7	C&I LDE	Mdu Shozi
TET 8	C&I Engineer	Ranwedzi Ramutsindela
TET 9	Electrical Engineer	Banele Mbendane
TET 10	Electrical Engineer	Rethabile Rateronko
TET 11	Configuration Management	Mandla Patric Nkosi
TET 12	Configuration Management	Mduduzi Dhlamini
TET 13	Architectural Technologist/Architect	To be appointed
TET 14	Electrical LDE	Mpho Ramunenyiwa
TET 15	EDWL	Zak Jiyane

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5. MANDATORY TECHNICAL EVALUATION CRITERIA

In order 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
5.1	Certification of the civil and structural engineering works	Submission of completed competency declaration form(s) for the role(s) of Professional Civil and Structural design Engineer(s)/Technologist(s), who shall be appointed for the certification of the works. Note: the role of civil and structural designers may be accepted by one or more professionals. All accountable professionals to complete and submit individual competency declaration forms, refer to form Appendix A1. The competency declaration form must be signed by the professional who will be certifying the works.	Design Integrity, Regulation Compliance
5.2	ECSA Professional Registered Electrical Engineer/Technologist	Copy of a valid and verifiable ECSA Professional Certification of Professional Registered Electrical Engineer/Technologist	South African legislative requirement for all individual performing engineering designs.
5.3	DOL registered technician/Electrician	DOL registration for issuing of COC.	South African legislative requirement for all individual issuing of COC.

NOTE: ECSA registration is required to be active at tender close and shall be verified through the ECSA website. Tenderers who fail to submit active or submit non-existent registration shall be disqualified.

6. QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

1. An undertaking is required that resources identified would not be changed on award of the Contract.
2. The CV's of Key Personnel should have experience, which is comparable in nature to the Works specified in this tender.

3. It is a requirement that the key personnel, in particular, have good communication skills in the English language.
4. Where no information is offered by the Tenderer no points shall be scored.
5. For ease of reference, the tenderer shall fill in and submit check sheet found in Appendix A2
6. Tenderer to ensure that their submission file is indexed with page numbers/page breakers for each deliverable

6.1 GENERAL EVALUATION CRITERIA (15%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.1	General Evaluation Criteria	15%	8%	1) Provide project organogram of key personnel of the main contractor and design team. Organogram should include key personnel listed below as minimum. a. Project Manager b. Configuration management c. Architect d. Safety Manager/Officer e. Quality Manager/Officer f. Contractor's lead Civil (drainage, storm water and pavements) Design Engineer g. Contractor's lead Civil (drainage, storm water and pavements) Design Engineer h. Contractor's Geotechnical registered professional i. Contractor's lead Electrical Design Engineer j. Contractor's lead Mechanical Design Engineer 2) The organogram must be accompanied by a letter confirming the availability of project team for the duration of the project. It is noted that team members may only be replaced with individuals of equal or higher level of competence, after Client approval. 1) Demonstrate how tenderer intend on executing and completing the project by Employer's required completion date by providing the following information for evaluation purposes: a. High level programme with key milestone and completion dates (design, construction, and handover). Note: The program shall allow for time related risks and allowance like rain and other possible delays.
6.1.1	Project team			
6.1.2	Project Programme		7%	

6.2 CIVIL ENGINEERING AND STRUCTURAL WORK EVALUATION CRITERIA (25%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.2	Civil Engineering and Structural work Evaluation Criteria	25%	6%	Indicating how quality assurance will be achieved with reference to the following critical items listed in the scope of work: 1. Construction materials, 2. Concrete patch plant, 3. Production of reinforced concrete, 4. Welding and structural steel, 5. Masonry works 5. Roads and storm water services Note 1: Tenderer to ensure that the methodology is specific to the scope of works Provide testimonial certificates or completion certificates for at least 3 complete construction projects relevant to the scope of work: The testimonial certificates or completion certificates shall consist of the following information: 1. Name of company where project was executed 2. Project Description 3. Verifiable reference (Contact person) Note 1: Appointment letters and payment certificates will not be considered. Note 2: If item 2 and 3 is not indicated on the testimonial certificate or completion certificates, the tenderer shall provide the information as an attachment to the testimonial certificate or completion certificate. Note 3: If the project description is not provided or not comparable to the SoW, the testimonial or completion certificate will not be considered. Note 4: If two or more listed items of information (1 to 3) are not provided on any specific testimonial or completion certificate, this testimonial or completion certificate will not be considered. Provide CV(s) of civil and structural designer(s) as per mandatory item 1 a. Relevant, with minimum 5 years structural design and construction monitoring experience, with reference to the scope of works. b. Relevant, with minimum 5 years civil design and construction monitoring experience, with reference to the scope of works. c. CV(s) to indicate project name and project description. Note 1: The role of civil and structural designer(s) may be accepted by one or more professionals. This needs to be clearly indicated. Note 2: If c above is not provided then the CV(s) will not be considered. Note 3: The above considers total years of experience
6.2.1	Construction methodology detailing how the Civil and Structural construction works will be executed.			
6.2.2	Company's background and experience on construction of: 1. Reinforced concrete works 2. Structural steel work 3. Stormwater/drainage infrastructure		6%	
6.2.3	CV(s) of professional ECSA registered designer(s) who will be certifying civil engineering and structural works. Minimum of 5 years, relevant to the scope, of work experience is required.		7%	

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6.2.4	CV(s) of professional ECSA/SACNASP registered geotechnical specialist(s) who will be certifying geotechnical works. Minimum of 5 years experience relevant to the scope of work experience is required for the geotechnical specialist(s).	6%	Provide CV(s) of ECSA/SACNASP registered geotechnical specialist(s) who will certify geotechnical works for building structures and related civil services. a. Minimum of 5 years' experience, relevant to the scope of work, in the design, investigation, and testing of geotechnical works for building structures and related civil services. b. CV to indicate project name, and project description. c. The professional shall provide a copy of his/her valid, at the time of tender close, registration certificate. Note 1: If b and/or c. above is not provided then the CV(s) will not be considered. Note 2: The above considers total years of experience
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6.3 MECHANICAL FIRE PROTECTION AND WET SERVICES (10%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.3	Mechanical fire protection and wet services	10%		
6.3.1	Experience of Mechanical Lead Professional		4%	Demonstration of knowledge and level of expertise in Fire Protection projects. Relevant competency and qualifications must be clearly demonstrated. The Lead Mechanical Professional's full resume with professional registration certificate must be attached
6.3.2	South African Qualification and Certification Committee (SAQCC) for the Fire Industry Registration		3%	South African Qualification and Certification Committee (SAQCC) for the Fire Industry Registration for one (01) Technician for Fire Suppression A qualified technician with a minimum of 3 years' experience, attach CV and a copy of SAQCC for the Fire Industry.
6.3.3	Qualified and Licensed Plumber		3%	One (1) Plumbing Industry Registration Board (PIRB) registered personnel with a minimum 3 years' experience.

6.4 FIRE DETECTION AND ACCESS CONTROL (10%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.4	Access Control Evaluation Criteria	10%		
6.4.1	CV of the professionally registered C&I/Electronics/Electrical Engineer/Technologist responsible for the design, supply, installation, and commissioning of the works as defined in section 6.6 & 6.7 of the document; 348-9948426 Technical Specification for Design and Construction of Auxiliary Buildings at Medupi Power Station		3%	Provide CV of the professionally registered C&I/Electronics/Electrical Engineer/Technologist Relevant design, construction, and project monitoring experience with reference to the scope of works to include, but not limited to: i. Biometric access control ii. Fire detection system iii. CCTV iv. Monitoring of HVAC system CV to indicate project names, project completion dates, project descriptions and project locations.
6.4.2	Company's background and experience on the design, installation, and commissioning of works as defined in section 6.6 & 6.7 of the document; 348-9948426 Technical Specification for Design and Construction of Auxiliary Buildings at Medupi Power Station		4%	Provide testimonial certificates or completion Certificates for at least a. 3 complete design, construction and commissioned projects relevant to the scope of works The testimonial certificates or completion certificates shall consist of the following information: a. Name of company where projects were executed b. Project Descriptions c. Construction periods d. Verifiable references (Contact person)
6.4.3	The Tenderer shall submit a High-level Proposal demonstrating an understanding of the works required below in accordance with the technical specification. i. Biometric access control ii. Fire detection system iii. CCTV		3%	Proposal to include the following details as a minimum: • Description of the Works, activities, and processes • Technical Requirements • Intentions on how the above Works will be executed • Fire Detection/CBMS/CCTV/Biometric Access Control Equipment & Materials specification

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iv.	Monitoring of HVAC system	
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6.5 ELECTRICAL EVALUATION CRITERIA (10%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.5	Electrical Evaluation Criteria	10%		
6.5.1	Earthing, Small Power and Lighting concept Design		3%	<ul style="list-style-type: none"> The Conceptual design for Fire and Medical building and Medical Storage Facility which includes electrical Small Power and Lighting Earthing and lightning protection
6.5.2	Methodology detailing how the electrical installation and commissioning works will be executed.		3%	Provide method statement that includes the following as minimum requirement: <ul style="list-style-type: none"> Installation plan and commissioning plan. Typical ITP for relevant construction activities. Test to be conducted as per relevant Specifications.
6.5.3	CV and proof of a professional registered Electrical Engineer/Technologist who will be responsible for the design and construction of the works as defined in the SoW. An additional CV with proof of registration from the DOL for issuing of COC.		4%	Provide CV of professional registered personnel <ul style="list-style-type: none"> ECSA registered Electrical Engineer/Technologist DOL registered Electrician/Technician CV to indicate completed projects similar to the SoW, project completion date, project description and project location.

6.6 CONFIGURATION MANAGEMENT CRITERIA (5%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.6	Configuration Management Evaluation Criteria	5%		
6.6.1	Contractor to provide a method statement covering KKS coding, stencilling, and labelling of the plant (Fire and Medical Storage Facility). The contractor shall be required to provide examples of a labelled plant component, stencilled component (pipe or vessel or crawl beam) and labelled building with examples or pictures.		2.5%	The Contractor to provide method statement covering KKS coding, stencilling, and labelling with examples or pictures.
6.6.2	KKS power plant coding experience of the responsible coding technician.		2.5%	Provide a CV of the responsible coding technician with at least three years KKS power plant coding experience.

6.7 HVAC (10%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.7	HVAC	10%		
6.7.1	Professional registered mechanical engineer/technologist with list of five completed projects in design and construction of HVAC projects		6%	CVs of key personnel clearly indicating experience in HVAC Design and construction projects ECSCA certificates or Pr Eng/Pr Tech
6.7.2	Method statement and schedule for completion of HVAC works		4%	Method statement for HVAC installation and indication of HVAC works in project schedule

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6.8 BUILDING WORKS AND ARCHITECTURAL FINISHES (15%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
6.8	Building works and Architectural Finishes Evaluation Criteria	15%		Provide CV and proof of registration of professionally registered architect or professionally registered senior architectural technologist who will sign off architectural design drawings
6.8.1	CV and registration of professionally registered architect or professionally registered senior architectural technologist who will be responsible for the design, specification, and construction monitoring of work as defined in the SoW.		5%	<p>a. Relevant architectural design experience with 5 or more years' experience getting the highest score, and construction monitoring experience with reference to the scope of works which include, but not limited to:</p> <p>i. Storage facilities</p> <p>ii. Industrial facilities, i.e., industrial workshops</p> <p>b. CV to indicate project name, project completion date, project description and project location.</p> <p>Provide a SACAP registration certificate clearly indicating the current registration date and end of CPD cycle date</p> <p>Provide testimonial certificates or completion certificates for at least:</p> <p>a. 3 complete design projects relevant to the scope of work</p> <p>And</p> <p>b. 3 complete construction projects relevant to the scope of work</p> <p>The testimonial certificates or completion certificates shall consist of the following information:</p> <p>1. Name of company where project was executed</p> <p>2. Project Description</p> <p>3. Construction period</p> <p>4. Verifiable reference (Contact person)</p> <p>Note 1: Appointment letters and payment certificates will not be considered.</p> <p>Note 2: If item 2, 3 and 4 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.</p> <p>Note 3: If the project description is not provided or not comparable to the SoW, the testimonial or completion certificate will not be considered.</p> <p>Provide at least 3, local council approval notices (approval letters) for your similar designs that were approved by the local council respective to the testimonial or completion certificates submitted. Note the letter shall clearly show the stand number.</p>
6.8.2	Company's background and experience on the design, construction monitoring, and the construction of works as defined in the SoW.		5%	
6.8.3	Previous design approval by local council		5%	

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7. TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1 Civil	TET 2 Civil	TET 3 Civil	TET 4 LDE. (LPS)	TET 5 HVAC. (LPS)	TET 6 Fire. (LPS)	TET 7 C&I LDE	TET 8 C&I	TET 9 Elect.	TET 10 Elect.	TET 11 Config.	TET 12 Config.	TET 13 Arch.	TET 14 Elect. LDE	TET 15 EDWL
5.1.	X	X	X												X
5.2.									X	X				X	X
5.3.									X	X				X	X
Qualitative Criteria Number	TET 1 Civil	TET 2 Civil	TET 3 Civil	TET 4 LDE. (LPS)	TET 5 HVAC. (LPS)	TET 6 Fire. (LPS)	TET 7 C&I LDE	TET 8 C&I	TET 9 Elect.	TET 10 Elect.	TET 11 Config.	TET 12 Config.	TET 13 Arch.	TET 14 Elect. LDE	TET 15 EDWL
6.1 (General)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6.2 (Civil and Structural)	X	X	X												
6.3 (Mechanical fire protection and wet services)				X		X									X
6.4 (Fire detection and Access control)							X	X							X
6.5 (Electrical works)									X	X				X	
6.6 (Configuration management)											X	X			X
6.7 (HVAC)				X	X										X
6.8 (Building works and architectural finishes)			X										X		X

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8. SCORING CRITERIA: ALSO REFER TO TABLE 1

8.1 SCORING CRITERIA: GENERAL

No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.1.1	<p>1) Provide project organogram of key personnel of the main contractor and design team. Organogram should include key personnel listed below as minimum.</p> <p>a. Project Manager</p> <p>b. Configuration Management</p> <p>d. Architect</p> <p>f. Safety Manager/Officer</p> <p>g. Quality Manager/Officer</p> <p>h. Contractor's lead Structural Design Engineer</p> <p>i. Contractor's lead Civil (drainage, storm water and pavements) Design Engineer</p> <p>j. Contractor's Geotechnical registered professional</p> <p>k. Contractor's lead Electrical Design Engineer</p> <p>l. Contractor's lead Mechanical Design Engineer</p> <p>2) The organogram must be accompanied by a letter confirming the availability of project team for the duration of the project. It is noted that team members may only be replaced with individuals of equal or higher level of competence, after Client approval.</p>	<p>5 Organogram includes all 10 minimum key personnel listed (name and respective role) and letter of declaration provided</p> <p>4 Organogram includes 7 or more minimum key personnel listed (name and respective role) and letter of declaration provided</p> <p>4 Organogram includes all 10 minimum key personnel listed (name and respective role) and letter of declaration not provided</p> <p>2 Organogram includes less than 7 minimum key personnel listed (name and respective role) with or without letter of declaration provided.</p> <p>0 Organogram not provided/not compliant and letter of declaration not provided</p>
6.1.2	<p>1) Demonstrate how tenderer intend on executing and completing the project by Employer's required completion date by providing the following information for evaluation purposes:</p> <p>a. High level programme with key milestone and completion dates (design, construction, and handover).</p> <p>Note: The program shall allow for time related risks and allowance like rain and other possible delays.</p>	<p>5 - Program compliant and relevant to the scope.</p> <p>4 - Program includes design and construction and does not include hand over</p> <p>2 - Program only includes handover and either design or construction</p> <p>0 - Program not submitted/not relevant to the SoW</p>

8.2 SCORING CRITERIA: CIVIL ENGINEERING AND STRUCTURAL WORK

No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.2.1	<p>Proposed construction method statement that includes, but not limited to, the following:</p> <p>Indicating how quality assurance will be achieved with reference to the following critical items listed in the scope of work:</p> <p>1. Construction materials,</p> <p>2. Concrete patch plant,</p> <p>3. Production of reinforced concrete,</p> <p>4. Welding and structural steel,</p> <p>5. Masonry works</p> <p>6. Roads and storm water services.</p>	<p>5 Construction methodology compliant and relevant to the scope, 6 out of 6 provided.</p> <p>4 Acceptable technical risks: minimum 4 out of 6 provided.</p> <p>2 Unacceptable technical risks: 3 or less out of 6 provided.</p> <p>0 Method statement not provided/not relevant to the scope.</p>
6.2.2	<p>Provide testimonial certificates or completion certificates for at least 3 complete construction projects relevant to the scope of work:</p> <p>The testimonial certificates or completion certificates shall consist of the following information:</p> <p>1. Name of company where project was executed</p>	<p>5 Fully compliant</p> <p>4 Submits 3 testimonials/completion certificates but omitting one of 2 or 3.</p> <p>4 Submits 2 fully compliant testimonials/completion certificates with no omissions (1 to 3 provided).</p>

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2. Project Description	
<p>3. Verifiable reference (Contact person)</p> <p>Note 1: Appointment letters will not be considered.</p> <p>Note 2: If item 2 and 3 is not indicated on the testimonial certificate or completion certificates, the tenderer shall provide the information as an attachment to the testimonial certificate or completion certificate.</p> <p>Note 3: If the project is not comparable to the SoW, the testimonial or completion certificate will not be considered.</p> <p>Note 4: If two or more listed items of information (1 to 3) are not provided on any specific testimonial or completion certificate, this testimonial or completion certificate will not be considered.</p>	
6.2.3	<p>Provide CV(s) of civil and structural designer(s) as per mandatory item 1</p> <p>a. Relevant, with minimum 5 years structural design and construction monitoring experience, with reference to the scope of works.</p> <p>b. Relevant, with minimum 5 years civil design and construction monitoring experience, with reference to the scope of works.</p> <p>c. CV(s) to indicate project name and project description.</p> <p>Note 1: the role of civil and structural designer(s) may be accepted by one or more professionals. This needs to be clearly indicated</p> <p>Note 2: If c above is not provided then the CV(s) will not be considered.</p> <p>Note 3: the above considers total years of experience</p>
6.2.4	<p>Provide CV(s) of ECSA/SACNASP registered geotechnical specialist(s) who will certify geotechnical works</p> <p>a. Minimum of 5 years' experience, relevant to the scope of work, in the design, investigation, and testing of geotechnical works for building structures and related civil services.</p> <p>b. CV to indicate project name, and project description.</p> <p>c. The professional shall provide a copy of his/her valid registration certificate.</p> <p>Note 1: If b and/or c. above is not provided then the CV(s) will not be considered.</p> <p>Note 2: The above considers total years of experience.</p>

2 Submits only one fully compliant testimonials/completion certificate with no omissions (1 to 3 provided).	2 a. Structural designer has more than 4 but less than 5 years relevant experience and b. civil designer more than 4 years, relevant experience, and c. CV(s) fully compliant
0 No Construction related certificates received	2 a. Structural designer has less than 4 year's relevant experience and/or Civil designer has less than 3 years of relevant experience and c. CV(s) fully compliant.
	0 No CV(s) received, or CV(s) does not indicate experience relevant to the SoW, or c. not provided.
	5 Professional(s) has 5 or more years relevant experience and CV(s) fully compliant.
	4 a. Professional has 5 or more years of relevant experience and b. CV compliant and c. copy of valid registration certificate.
	4 a. Professional has more than 4 but less than 5 year's relevant experience and b. CV compliant and c. copy of valid registration certificate.
	2 a. Professional has less than 4 year's relevant experience and/or b. CV non-compliant and/or c. copy of valid registration certificate.
	0 No CV received or CV not compliant or copy of valid registration certificate not provided.

8.3 SCORING CRITERIA: MECHANICAL FIRE PROTECTION AND WET SERVICES

No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.3.1	<p>Demonstration of knowledge and level of expertise in Fire Protection projects. Relevant competency and qualifications must be clearly demonstrated.</p> <p>The Lead Mechanical Professional's full resume with professional registration certificate must be attached</p>	<p>5= Professional has 5 years or more of relevant experience and copy of professional registration certificate included</p> <p>4 = Professional has 3 - 5 years relevant experience and copy of professional registration certificate included</p> <p>2 = Professional has less than 2 years relevant experience</p> <p>2 = Copy of professional registration certificate not included</p> <p>0 = Detail does not conform with the requirements</p>
6.3.2	<p>South African Qualification and Certification Committee (SAQCC) for the Fire Industry Registration for one (01) Technician for Fire Suppression</p> <p>A qualified technician with a minimum of 3 years' experience, attach CV and a copy of SAQCC for the Fire Industry.</p>	<p>5= Technician has 3 years or more relevant experience and Copy of SAQCC for the Fire Industry Registration certificate included</p>

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		4 = Technician has 2 - 3 years relevant experience and Copy of SAQCC for the Fire Industry Registration certificate included 2 = Technician has less than 2 years relevant experience 2 = Copy of SAQCC for the Fire Industry Registration certificate not included 0 = Detail does not conform with the requirements
6.3.3	One (1) Plumbing Industry Registration Board (PIRB) registered personnel with a minimum 3 years' experience. Attached CV and a copy of PIRB license or certificate	5= Registered personnel has 3 years or more relevant experience and Copy PIRB license or certificate included 4 = Registered personnel has 2 - 3 years or more relevant experience and Copy PIRB license or certificate included 2 = Registered personnel has less than 2 years relevant experience 2 = Copy of PIRB license or certificate not included 0 = Detail does not conform with the requirements

8.4 SCORING CRITERIA: FIRE DETECTION AND ACCESS CONTROL

No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.4.1	Provide CV of the ECSA registered professional C&I/Electronics Engineer/Technologist Relevant design, construction, and project monitoring experience with reference to the scope of works to include, but not limited to: i. Biometric access control ii. Fire detection system iii. CCTV iv. Monitoring of HVAC system CV to indicate project names, project completion dates, project descriptions and project locations.	5= CV submitted for the Professionally registered Engineer/Technologist as per tender returnable(s) with full understanding and experience (5 years or more) of section 6.6 & 6.7 of the document: 348-9948426 scope of works. 4= CV submitted for the Professionally registered Engineer/Technologist as per tender returnable(s) with minor understanding and experience (3 years or more but less than 5 years) of section 6.6 & 6.7 of the document: 348-9948426 scope of works. 2= CV submitted for the non-registered Engineer/Technologist with Key fire detection and access control experience (1 - 2 years). 0= No CV submitted for the Professionally registered Engineer/Technologist as per tender returnable(s).
6.4.2	Provide testimonial certificates or completion Certificates for at least: a. 3 complete design, construction and commissioned projects relevant to section 6.6 & 6.7 of the document: 348-9948426 scope of works The testimonial certificates or completion certificates shall consist of the following information: a. Name of company where projects were executed. b. Project Descriptions c. Construction periods d. Verifiable references (Contact person)	5= Three or more References submitted of SIMILAR / RELATABLE work with all details complete 4= Two References submitted of SIMILAR / RELATABLE work with all details complete 2= One Reference submitted with minor SIMILAR / RELATABLE work OR details not included or complete 0= No Reference(s) submitted
6.4.3	The Tenderer shall submit a High-level Proposal demonstrating an understanding of the works required below in accordance with the technical specification. i. Biometric access control ii. Fire detection system iii. CCTV iv. Monitoring of HVAC system Proposal to include the following details as a minimum: • Description of the Works, activities, and processes • Technical Requirements • Intentions on how the above Works will be executed • Fire Detection/CBMS/CCTV/Biometric Access Control Equipment & Materials specification	5 = The Tenderer shall provide a high-level Design and Specification Methodology of the control and instrumentation design required according to the Technical Specification. This submission shall include the instrument schedule of each instrument type (i.e., smoke detectors, biometrics devices, etc.) as minimum as per template 240-72249423. 4 = Proposal conforms with minor exceptions to this tender design requirements. 2= Proposal has major deviations from tender requirements on non-critical as well as critical elements of the design 0 = NON-RESPONSIVE or Proposal does not conform with the design.

8.5 SCORING CRITERIA: ELECTRICAL WORKS

No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.5.1	Provide the following as minimum (Earthing, lighting, and small power) • The Conceptual Earthing design for. Fire & Medical Storage facility. • Electrical Small Power and Lighting Conceptual Design	5 = Detail supplied conforms without exceptions to this tender design requirements 4 = Detail supplied has only minor deviations from tender requirements on non-critical elements of design

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		2= Detail supplied has major deviations from tender requirements on critical elements of the design 0=Details submitted does not conform with the requirement
6.5.2	Provide method statement that includes the following as minimum requirement: (Electrical installation) • Installation plan and commissioning plan. • Test to be conducted as per relevant Specifications	5 = Detail supplied conforms without exceptions to this tender design requirements 4 = Detail supplied has only minor deviations from tender requirements on non-critical elements of design 2= Detail supplied has major deviations from tender requirements on non-critical as well as critical elements of the design 0=Details submitted does not conform with the requirement
6.5.3	Provide CV of professional registered personnel • ECSA registered Electrical Engineer/Technologist • DOL registered Electrician/Technician CV to indicate completed projects similar to the SOW, project completion date, project description and project location,	5=CV's submitted with proof of certification from ECSA and DOL. Minimum project experience related to SOW reflected on their CV's. 4= CV's submitted with proof of certification from ECSA and DOL. Project experience related to SOW on their CV's not meeting the minimum (3) project completed 2= CV's submitted with ECSA and DOL-certification, with no experience related to SOW 0 = CV's not submitted, CV's submitted however, proof of certification from ECSA and DOL not attached. CV's submitted, however experience does not relate to the SOW.

8.6 SCORING CRITERIA: CONFIGURATION MANAGEMENT

No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.6.1	Contractor to provide a method statement covering KKS coding, stencilling, and labelling of the plant (Fire and Medical Storage Facility). The contractor shall be required to provide examples of a labelled fire component, stencilled component (pipe or vessel or crawl beam) and labelled building.	Method statement: 5= Method statement provided correctly covered information with regards to coding, stencilling and labelling with examples or pictures. 4 = Method statement provided did not cover one of the items mentioned in column (1) (either coding, stencilling, labelling or did not provide examples or pictures) 2= Method statement provided did not meet either score (5) or (4) as indicated above. 0= No method statement was provided in the submission.
6.6.2	Provide CV of the responsible coding technician with at least three years power plant KKS coding experience.	5=CV provided meet the minimum three years power plant KKS coding experience. 4=CV provided indicate only two years of power plant KKS coding experience. 2=CV provided indicate only less than two years of power plant KKS coding experience. 0=CV provided indicate zero experience of power plant KKS coding.

8.7 SCORING CRITERIA: HVAC

No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.7.1	Professional registered mechanical engineer/technologist with list of five completed projects in design and construction of HVAC projects	5 = CV's and ECSA certificates included with five (5) or more years' experience on HVAC related projects 4 = CV's and ECSA certificates provided with 3-5 years of experience on related HVAC projects 2= CV and ECSA certificate with less than 3 years' experience on HVAC related projects 2 = No ECSA certificates provided 0 = No Response
6.7.2	Method statement and schedule for completion of HVAC works	5= Detailed method statement and HVAC project schedule 4 = Method statement included with no schedule 2 = Insufficient documents 0 = No response

8.8 SCORING CRITERIA: BUILDING WORKS AND ARCHITECTURAL FINISHES

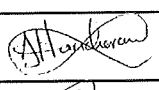
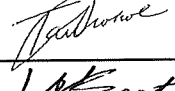
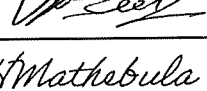
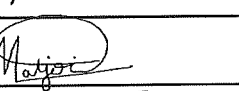
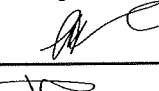
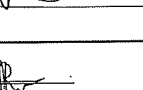
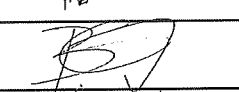

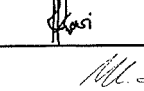
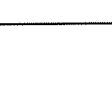

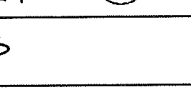


No of Evaluation Criteria	Tender Returnable(s)	Scoring criteria
6.8.1	Provide CV and proof of registration of professionally registered architect or professionally registered senior architectural technologist who will sign off architectural design drawings a. Relevant architectural design experience with 5 or more years' experience getting the highest score, and construction monitoring experience with reference to the scope of works which include, but not limited to:	5 = CV with complete required information, valid SACAP registration certificate with original registration date over five years, five years or more experience in related architectural projects

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	<p>iii. Storage facilities</p> <p>iv. Industrial facilities, i.e., industrial workshops</p> <p>b. CV to indicate project name, project completion date, project description and project location.</p> <p>Provide a SACAP registration certificate clearly indicating the current registration date and end of CPD cycle date</p>	<p>4 = CV with complete required information, valid SACAP registration certificate, three years' experience in related architectural projects</p> <p>2 = CV with required information, valid SACAP registration certificate, 2 years maximum experience in related architectural projects</p> <p>0 = Information received is not relevant to the SoW, CV not meeting minimum requirements and no response</p>
6.8.2	<p>Provide testimonial certificates or completion certificates for at least:</p> <p>a. 3 complete design projects relevant to the scope of work</p> <p>b. 3 complete construction projects relevant to the scope of work</p> <p>The testimonial certificates or completion certificates shall consist of the following information:</p> <ol style="list-style-type: none"> 1. Name of company where project was executed 2. Project Description 3. Construction period 4. Verifiable reference (Contact person) <p>Note 1: Appointment letters and payment certificates will not be considered.</p> <p>Note 2: If item 2, 3 and 4 is not indicated on the testimonial certificate or completion certificate, the tender shall provide the information as an attachment to the testimonial certificate or completion certificate.</p> <p>Note 3: If the project description is not provided or not comparable to the SoW, the testimonial or completion certificate will not be considered.</p>	<p>5 = 3 or more (per design and construction projects, respectively) testimonials or completion certificates relevant to the scope of work with all the required information (name of company, project description, construction period and reference)</p> <p>4 = 2 (per design and construction projects, respectively) testimonials or completion certificates relevant to the scope of work with all the required information (name of company, project description, construction period and reference)</p> <p>2 = 1 (per design and construction project, respectively) testimonial or completion certificate relevant to the scope of work with all the required information (name of company, project description, construction period and reference)</p> <p>0 = Testimonials and completion certificates received are not relevant to the SoW and/or no response</p>
6.8.3	<p>Provide at least 3, local council approval notices (approval letters) for your similar designs that were approved by the local council respective to the testimonial or completion certificates submitted. Note the letter shall clearly show the stand number.</p>	<p>5 = Local council approval letters for 3 or more testimonials submitted</p> <p>4 = Local council approval letters for 2 of the testimonials submitted</p> <p>2 = Local council approval letters for 1 of the testimonials submitted</p> <p>0 = No response or stand number not indicated.</p>

9. AUTHORISATION REVISION 1

This document has been seen and accepted by:

Name & Surname	Designation	Signature
Avesh Haricharan	Civil Engineer	
Tau Chokoe	Civil LDE	
Willie Beetge	Chief Technologist: Civil	
Hendrick Mathebula	LPS LDE	
Morapeli Matjoi	HVAC Engineer (LPS)	
Pimani Mugwambane	Fire Engineer (LPS)	
Mdu Shoji	C&I LDE	
Ranwedzi Ramutsindela	C&I Engineer	
Banele Mbendane	Electrical Engineer	
Rethabile Rateronko	Electrical Engineer	
Mandla Patric Nkosi	Configuration Management	
Mduduzi Dhlamini	Configuration Management	
To be appointed	Architectural Technologist/ Architect	
Mpho Ramunenyiwa	Electrical LDE	
Zak Jiyane	EDWL	

10. REVISIONS

Date	Rev.	Compiler	Remarks
15 July 2024	1	W Beetge	Revision 1
21 June 2024	0.2	W Beetge	Second Draft
10 June 2024	0.1	W Beetge	First Draft

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11. DEVELOPMENT TEAM

All members listed under Table 3: TET Members

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APPENDIX A1

COMPETENCY DECLARATION FORM – Civil, Structural

Medupi Power Station, Certification of works accordance to Scope of Work doc No. 348-10084028

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 constructed works, changes, and additions to works as defined by the scope of work.

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:

Consultancy I am representing:

I will be performing the role of

<i>Role as per mandatory criteria (5.1)</i>		
1	Structural Design Engineer/Technologist	
2	Civil Services Design Engineer/Technologist	

(Tick the relevant box or both boxes if applicable)

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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. **348-10084028**
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 interfacing with works as indicated in the SoW
 - Design and analysis of new buildings/structures/systems as indicated in the SoW
 - Ensure design intent is achieved, through construction monitoring as required by the Construction Regulations, 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: No part of this declaration may be left blank or incomplete nor indicated as N/A (not applicable).

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APPENDIX A2

Tender returnable check sheet

Mandatory Returnable

	Tender returnable	Submitted (YES/NO)	Page Number reference
5.1.	Submission of completed competency declaration form (Civil and Structural Designer)		
5.2	Submission of ECSA certification with confirmation letter indicating active status of registration.		
5.3	Submission of DOL registration		

Qualitative Returnable

No of Evaluation Criteria	Tender Returnable(s)	Submitted (YES/NO)	Page Number reference
6.1	General		
6.1.1	Project team organogram		
6.1.2	High level programme		
6.2	Civil Engineering and Structural work		
6.2.1	Construction methodology detailing how the civil and structural works will be executed.		
6.2.2	Construction testimonial certificates or completion certificates	1	
		2	
		3	
6.2.3	CV of Civil and Structural designer		
6.2.4	CV of Geotechnical specialist and copy of professional registration certificate.		
6.3	Mechanical Fire Protection and Wet Services		
6.3.1	Piping General Arrangement (GA)		
6.3.2	CV of the ECSA registered professional Mechanical Engineer/Technologist		

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6.3.3	High-level Proposal demonstrating an understanding of the works to be executed		
6.3.4	Provision of a typical pressure test and a typical flushing procedure for a suppression system.		
6.3.5	Provision of a typical commissioning procedure for fire suppression system installations.		
6.4	Fire Detection and Access Control		
6.4.1	CV of the ECSA registered professional C&I/Electronics Engineer/Technologist		
6.4.2	Testimonial certificates or completion Certificates		
6.4.3	High-level Proposal demonstrating an understanding of the works to be executed		
6.5	Electrical Works		
6.5.1	Conceptual design for earthing, lighting, and small power		
6.5.2	Methodology and all ITPs with integration plan for completion of all electrical activities.		
6.5.3	CVs with ECSA and DOL certification		
6.6	Configuration Management		
6.6.1	Provide evidence showing three years power plant KKS coding and labelling experience with references. Information of the sub-contractor will be accepted		
6.6.2	Provide CV of the responsible coding technician with at least three years power plant KKS coding experience.		
6.7	HVAC		
6.7.1	CVs of key personnel, ECSA certificates, project completion certificates/letters		
6.7.2	Method statement for HVAC installation and indication of HVAC works in project schedule		
6.8	Building Works and Architectural Finishes		
6.8.1	CV and valid registration		
6.8.2	Company background with all the required information		
6.8.3	Local council approval notices (approval letters)		

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