Eskom	Strategy	Medupi Power Station

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1. INTRODUCTION

This document provides the Tender Technical Evaluation criteria for EC 26027224 (the design, installation and commissioning of pumps in all PCDs).

2. SUPPORTING CLAUSES

2.1 SCOPE

The document describes the acceptable and unacceptable risks and qualifications and /or conditions.

The Tender Technical Evaluation Strategy will define the following technical evaluation criteria:

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

No changes will be permitted to be made to the evaluation criteria once the Technical Evaluation Strategy is approved by the relevant Engineering Group Manager.

2.1.1 Purpose

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

2.1.2 Applicability

This document shall apply to 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.

2.2.1 Normative

[1] 240-168966153: Generation Tender Technical Evaluation Procedure

[2] Eskom Procurement and Supply Chain Management Procedure (32-1034)

[3] 241-2022602 Medupi Power Station EC 26027224 Install pumps in all PCDs scope of work

2.2.2 Informative

[4] ISO 9001 Quality Management Systems

[5] Eskom Procurement and Supply Chain Policy (32-1033)

2.3 DEFINITIONS

Definition	Description
Tender	A tender refers to an open or closed competitive request for quotations/ prices against a clearly defined scope/ specification.

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Definition	Description
KKS	Kraftwerk Kennzeichen System is a **process plant designation system** used to identify and classify equipment and components in process plant. In power plant planning and design, project construction and management of the process, it is used to provide for clear plant identification.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
C&I	Control and Instrumentation
CM	(Engineering) Change Management
CV	Curriculum Vitae
ECSA	Engineering Council of South Africa
ITP	Inspection and Test Plan
KKS	Kraftwerk-Kennzeichen system
P&ID	Process and Instrumentation Diagram
PCD	Pollution Control Dam
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted or point scored but shall be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The

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

Table 1: Technical Scoring Methodology

SCORE	PERCENTAGE (%)	DESCRIPTION
5	100	**COMPLIANT** • Meet the technical requirement(s) AND, • No foreseen technical risk(s) in meeting technical requirements
4	80	**COMPLIANT WITH ASSOCIATED QUALIFICATIONS** • Meet the technical requirement(s) with, • Acceptable technical risks AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions
2	40	**NON-COMPLIANT** • Does not meet the technical requirement(s) AND/OR Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions
0	0	**TOTALLY DEFICIENT/NON-RESPONSIVE**

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

PROJECT MANAGEMENT (15%)	
Planning	15%
ENGINEERING (85%)	
Civil and Structural Engineering	15%
Mechanical Engineering	30%
Control and Instrumentation Engineering	15%
Electrical Engineering	15%
Configuration and Documentation Management	10%
TOTAL (100%)	
Overall minimum threshold for qualification (70%)	

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3.2 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1	Royce Cole	Project Coordinator
TET 2	Bonolo Mampa	Civil Engineer
TET 3	Pakgadi Legodi	Civil Engineer
TET 4	Mufarisi Manyuha	Mechanical Engineer
TET 5	Hardus Van Biljon	Mechanical Engineer
TET 6	Letago Manyelo	Control and Instrumentation Engineer
TET 7	Joel Manamela	Control and Instrumentation Engineer
TET 8	Ivy Mosese	Electrical Engineer
TET9	Thembelihle Majozi	Electrical Engineer
TET10	Thambo Shiba	Configuration Management
TET11	Mbhoni Chauke	Configuration Management

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 3 defines all Mandatory Evaluation Criteria to be used as well as reference to specification and motivation for Criteria use

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	CIVIL /STRUCTURAL	a) The Tenderer must use the services of a **PROFESSIONAL CIVIL ENGINEER/TECHNOLOGIST**. Tenderers must as proof submit a valid ECSA Professional Certificates and recent (taken within last 2 months) snapshot of the ECSA website indicating the registration status. b) The Tenderer shall further submit a completed competency declaration form(s) for the role of Professional Civil Engineer(s)/Technologist(s), who shall be appointed for the certification of the Works. Refer to appendix A for the competency declaration form.	• The COMPETENCY DECLARATION of the lead design engineer is important to ensure that the works will be carried out with compliance and full understanding of the scope. • For design accountability and certification of the Civil Works. **South African legislative requirement** for all individual performing engineering design work to be professionally registered. NB: As per ECSA code of conduct, clause 3.1b, registered persons may only undertake Works, which their education, training and experience have rendered them competent to perform and is within the category of their registration.
2.	MECHANICAL	a) The Tenderer must use the services of a **PROFESSIONAL MECHANICAL ENGINEER/TECHNOLOGIST**. Tenderers as proof submit a valid ECSA Professional Certificates and recent (taken within last 2 months) snapshot of the ECSA website indicating the registration status. b) The Tenderer shall further submit a completed competency declaration form(s) for the role of Professional Mechanical Engineer(s) / Technologist(s), who shall be appointed for the	• The COMPETENCY DECLARATION of the lead design engineer is important to ensure that the works will be carried out with compliance and full understanding of the scope. • For design accountability and certification of the Mechanical Works. **South African legislative requirement** for all individual performing engineering design work. NB: As per ECSA code of conduct, clause 3.1b, registered persons may only undertake Works, which their education, training and experience have rendered them competent to perform and is within the category of their registration

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	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
		certification of the Works. Refer to appendix A for the competency declaration form.	
3.	CONTROL & INSTRUMENTATION	a) The Tenderer must use the services of a **PROFESSIONAL ENGINEER/TECHNOLOGIST** under the category of **CONTROL AND INSTRUMENTATION**. Tenderers as proof submit a valid ECSA Professional Certificates and recent (taken within last 2 months) snapshot of the ECSA website indicating the registration status. b) The Tenderer shall a completed competency declaration form(s) for the role of Professional Control and Instrumentation Engineer(s)/Technologist(s), who shall be appointed for the certification of the Works. Refer to appendix A for the competency declaration form.	• The COMPETENCY DECLARATION of the lead design engineer is important to ensure that the works will be carried out with compliance and full understanding of the scope. • For design accountability and certification of the Control and Instrumentation Works. **South African legislative requirement** for all individual performing engineering design work to be professional registered. NB: As per ECSA code of conduct, clause 3.1b, registered persons may only undertake Works, which their education, training and experience have rendered them competent to perform and is within the category of their registration.
4.	ELECTRICAL	4.1 The Tenderer must use the services of **PROFESSIONAL ELECTRICAL ENGINEER/TECHNOLOGIST** with at least 6 years of experience as a professional Engineer and a track record of 3 completed projects as a minimum; for design, construction, and commissioning of electrical works in Power Station or building services environment. a) Tenderer as proof submits a valid ECSA Professional Certificates	• The COMPETENCY DECLARATION of the lead design engineer is important to ensure that the work will be carried out with compliance and full understanding of the scope. For design accountability and certification of the Electrical Works. South African legislative requirement for all individual performing engineering design work. NB: As per ECSA code of conduct, clause 3.1b, registered persons may only undertake Works, which their education, training and

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	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
		and recent (taken within last 2 months) snapshot of the ECSA website indicating the registration status. b) Valid copies (certified) of qualifications and CV with traceable references to be submitted. c) Submit summarized reports (1 page per project) on the 3 previous projects completed detailing: Project scope details, Location, period of project, references and traceable contact details of reference (cellphone numbers and email, company name). d) The Tenderer shall complete competency declaration form(s) for the role of Professional Electrical Engineer(s)/Technologist(s), who shall be appointed for the certification of the Works. Refer to appendix A for the competency declaration form.	experience have rendered them competent to perform and is within the category of their registration

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	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
		4.2 The Tenderer must be registered as an Electrical Contractor in-terms of Occupational Health and Safety Act (OHS Act) with the Department of Employment and Labour. Tenderer as proof submits valid Electrical Contractor Registration Certificate.	• The requirement for Tenderers to be registered as Electrical Contractors in terms of the Occupational Health and Safety Act, 1993 (OHS Act), specifically the Electrical Installation Regulations, is essential to ensure legal compliance, safety, and quality in the execution of electrical works. • In accordance with the Electrical Installation Regulations, any entity performing electrical installation work must be formally registered with the Department of Employment and Labour as an Electrical Contractor and must employ a duly registered "Competent Person" (Installation Electrician or Master Installation Electrician) responsible for the technical supervision and certification of electrical work.

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NB: The Tenderer shall make these resources available during the execution of the Works. The resources submitted under mandatory shall be shown in the organogram. If the Tenderer changes the resource, the new candidate shall meet the requirement as stipulated in this strategy and the Tenderer submitted the CVs and credential to the Project Manager for review and acceptance. If the Tenderer submits the subcontractor's information as returnable, the subcontractor shall be used during the execution of the Works. An agreement between the contractor and the sub-contractor shall be supplied with returnable. If the Tenderer wishes to change the subcontractor, the Tenderer shall ensure that the new subcontractor meets the minimum requirements as stipulated in this technical evaluation strategy and submitted CV(s), experience history and other credential that may be required with traceable reference to the Project Manager for review and acceptance.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

General Notes:

1. The CVs of Key Personnel should have experience which is comparable in nature to the Works specified in this tender.
2. It is a requirement that the key personnel have effective communication skills in the English language.
3. Where no information is offered by the Tenderer no points shall be scored.
4. In the case of an association / joint venture / consortium, it should, indicate how the duties and responsibilities are to be shared. If the tenderer intends making use of the services of subcontractors, the tenderer should indicate the proposed sub- contractors for all Works to be subcontracted. The subcontractors should meet the evaluation criteria.

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Table 4: Qualitative Technical Evaluation Criteria

3.4.1 Project Management Evaluation Criteria

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.1	**Project management**	**15%**		
3.4.1.1	Project team		60%	1) Provide project organogram of key personnel of the main contractor and design team. Organogram should include key personnel listed below as minimum. a. Management team. b. Project Manager. c. ECSA registered Professional engineers/technologists approving designs for Civil, Structural, Geotechnical, Mechanical, C&I, Electrical Engineers. d. Design Engineers/Technologists e. Site personnel for construction monitoring (Construction Manager; site engineer) f. Project Planner, g. Configuration - and Document Management, h. SHEQ team 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.

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No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.1.2	Project Programme		40%	1) The Tenderer shall demonstrate how it shall perform the various functions including design or design review, procurement, construction, commissioning, inspection, training, and the locations where the various portions of the Work shall be implemented by providing the following information for evaluation purposes: a. High level programme with key milestone and completion dates (design or design review, construction/restoration, and commissioning and handover).

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3.4.1.1 Scoring criteria for Project management

No	Tender Returnable(s)	Scoring Criteria
3.4.1.1	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. ECSA registered Professional engineers approving designs for Civil, Structural, Geotechnical, Mechanical, C&I, Electrical Engineers. c. Construction Manager d. Site engineer e. Designer Site Representative f. Project Planner g. Configuration and Document Management, h. Occupational Health and Safety Officer i. Environmental Officer j. QA/QC personnel 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.	5 =Organogram includes all 10 minimum key personnel group listed (name and respective role) and letter of declaration provided. 4 =Organogram includes less than 10 key personnel group listed (name and respective role) and letter of declaration provided. 2 =Organogram includes less than 10 minimum key personnel group listed (name and respective role) without letter of declaration provided. 0 =Organogram not provided/not compliant and letter of declaration not provided.

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No	Tender Returnable(s)	Scoring Criteria
3.4.1.2	1) The Tenderer shall demonstrate how it shall perform the various functions including design, procurement, construction, commissioning, inspection, servicing/restoration, training, and the locations where the various portions of the Work shall be implemented by providing the following information for evaluation purposes: • Provide Level 4 Primavera programme with key milestone and completion dates (design, construction, and commissioning and handover).	5 =Program complaint and relevant to the scope. It reflects all the milestones and recognises that the scope is different per area. 4=Program includes design and construction, commissioning and does **not** include hand over. 2=Program only includes handover/Or commissioning and either design or construction. 0 =Program not submitted\not relevant to the SOW.

3.4.2 Civil and Structures Evaluation Criteria

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.2	**Civil and Structures**	15%		
3.4.2.1	Company's/Consultant's background and experience on Civil and structural design and construction monitoring of: a) Civil infrastructure b) Steel Structural works.		30%	Provide **Testimonial and Project Completion Certificates** for at least 3 completed projects with a similar scope as Eskom technical specification on civil and structures works. The information provided should consist of but not limited to: a) Name project and the company for whom works were executed and services were rendered. b) Project Description and scope of the completed works. c) Construction durations. d) Verifiable reference for each project (Contact person) with contact details and designation. e) Authorised acknowledgement letter of completed works.

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No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.2.2	CV('s) of professional ECSA registered designer(s) who will be certifying civil and structural design works.		35%	Provide CV(s) of civil and structural designer(s) a) Relevant, with minimum 5 years of civil and structural design works and construction monitoring experience, with completed project references similar to the technical specification such as steel works and the reinforced concrete works. CV(s) to indicate project name and project description.
3.4.2.3	Design and design integration methodology.		20%	Provide a **high-level design methodology** addressing the following. *Tenderer* to indicate how the contractor will design for the works as per the technical specification information provided by Eskom. The design approach will include all the civil works included but not limited to: - • Plinth works (i.e pump bases) • Pipe support structures • Concrete slabs/ Platforms • Steel structures and access platforms (gratings; cat ladders etc) • Buried services (PCD water pipelines)
3.4.2.4	Construction methodology detailing how the Civil and Structural construction works will be executed.		**15%**	Proposed construction method statement that includes, but not limited to, the following: the approach and execution of civil works. 1. Method statements per each civil infrastructure works. a) Plinth works (i.e pump bases) b) Pipe support structures c) Concrete slabs/ Platforms d) Steel structures and access platforms (gratings; cat ladders etc) e) Buried services (PCD water pipelines) f) Geotechnical investigations and surveying 2. Construction monitoring Inspection Plans, indicating how quality assurance will be achieved.

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3.4.2.1 Scoring criteria for Civil and Structures

No	Tender Returnable(s)	Scoring Criteria
3.4.2.1	Provide **Testimonial and Project Completion Certificates** for at least 3 completed projects with a similar scope as Eskom technical specification on civil and structures works. The information provided should consist of but not limited to: a) Name project and the company for whom works were executed and services were rendered. b) Project Description and scope of the completed works. c) Construction durations. d) Verifiable reference for each project (Contact person) with contact details and designation. e) Authorised acknowledgement letter of completed works	5= Fully complaint (3 testimonials/completion certificates no omissions) 4= Submits 3 testimonials/completion certificates but omitting one of a, or c, or d. 2=Submits only one fully compliant testimonials/completion certificate with no omissions (a to e provided). 0= No Construction related certificates received.
3.4.2.2	Provide CV(s) of civil and structural designer(s) a) Relevant, with minimum 5 years of civil and structural design works and construction monitoring experience, with completed project references similar to the technical specification such as steel works and the reinforced concrete works. CV(s) to indicate project name and project description. b) CV(s) to show project name and project description.	5=Professional(s) has 5 or more years relevant experience and CV(s) fully compliant and ECSA certificate is provided. 4= Professional(s) has 4 years relevant experience and CV(s) fully compliant and ECSA certificate is provided. 2= Professional(s) has less than 4 years relevant experience and CV(s) fully compliant and no ECSA certificate is provided. 0= No CV(s) received, or CV(s) does not show experience relevant to the technical specification.
3.4.2.4	Provide a **high-level design methodology** addressing the following. *Tenderer* to indicate how the contractor will design for the works as per the technical specification information provided by Eskom. The design approach will include all the civil works included but not limited to: - a) Plinth works (i.e pump bases) b) Pipe support structures	5 =Design methodology compliant and relevant to the scope. 4 =Acceptable technical risks: design methodology excludes only one of the civil and structural works a) b) c) d) or e). 2= Unacceptable technical risks: design methodology excludes only two or more of the civil and structural works a) b) c) d) or e). 0 = Design methodology not provided/not relevant to the scope

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No	Tender Returnable(s)	Scoring Criteria
	c) Concrete slabs/ Platforms d) Steel structures and access platforms (gratings; cat ladders etc) e) Buried services (PCD water pipelines)	
3.4.2.5	Proposed construction method statement that includes, but not limited to, the following: the approach and execution of civil works. 1. Method statements per each civil infrastructure works. a) Plinth works (i.e pump bases) b) Pipe support structures c) Concrete slabs/ Platforms d) Steel structures and access platforms (gratings; cat ladders etc) e) Buried services (PCD water pipelines) f) Geotechnical investigations and surveying 2. Construction monitoring Inspection Plans, indicating how quality assurance will be achieved.	5 =Construction methodology compliant and relevant to the scope. 4 =Acceptable technical risks: methodology fully compliant with 1 and 2 but not covering all works form a) to f) 2 =Unacceptable technical risks: methodology not compliant with either 1 or 2 0= Methodology not provided/not relevant to the scope.

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3.4.3 Mechanical Evaluation Criteria

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.3	Mechanical	30%		
3.4.3.1	Submitted a CV and ECSA Professional Registration Certificate for the Lead **MECHANICAL ENGINEER/TECHNOLOGIST** with at least 5 years relevant experience who will be designing and certifying the Mechanical Works required as per the technical specification.		20%	CV of professional registered Mechanical Engineer detailing experience in design, construction, and commissioning of pump and piping installations with minimum 5 years' experience.
3.4.3.2	3 Completed projects related to pump and piping design, construction and commissioning		20%	The Tenderer submits a list of traceable references which adequately proves that the Tenderer has at least completed three (3) projects successfully of similar scope as per the Mechanical Works contained in the technical specification in the last ten (10) years. Completion certificate and the Name, Designation, and Contact Person of Referee are required. In the case that the tenderer intends to subcontract or form a joint venture, a partnership agreement/letter of intent, together with individual track records of each party involved is to be provided
3.4.3.3	Design Experience		25%	Provision of typical pump and piping design documents to demonstrate design experience with the following a) Piping & General Arrangement (P&ID and GA) b) Hydraulic Calculations c) Pump sizing

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No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.3.4	A submitted sample Inspection and Test Plan (ITP) or Quality Control Procedural check sheet on how the Works would be inspected. This shall include an ITP for manufacturing, construction, and commissioning of the Works		20%	Provision of typical inspection checklists for a) Design verification b) Construction completion Checklist to include items to be inspected or verified by designer & installer.
3.4.3.5	Flushing and Commissioning		15%	Provision of a typical flushing and commissioning procedure for pump, piping and valve installations.

3.4.3.1 Scoring criteria for mechanical

No	Tender Returnable(s)	Scoring Criteria
3.4.3.1	CV of professional registered Mechanical Engineer detailing experience in design, construction, and commissioning of pump and piping installations with MINIMUM 5 years' experience post ECSA certification.	5 = CV with 5 or more years of related experience post ECSA Professional Registration 4 = CV with 4 years of related experience post ECSA Professional Registration 2 = CV with 3 years of related experience post ECSA Professional Registration 0 = No Response or CV with less than 3 years of related experience post ECSA Professional Registration
3.4.3.2	The Tenderer submits a list of traceable references which adequately proves that the Tenderer has at least completed three (3) projects successfully of similar scope as per the Mechanical Works contained in the technical specification in the last ten (10) years. Completion certificate and the Name, Designation, and Contact Person of Referee are required.	5 = more than 3 projects completed with completion certificates related to pump and piping design, construction and commissioning 4 = 3 projects completed with completion certificates related to pump and piping design, construction and commissioning 2 =Less than 3 projects completed with completion certificates related to pump and piping design, construction and commissioning

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No	Tender Returnable(s)	Scoring Criteria
	In the case that the tenderer intends to subcontract or form a joint venture, a partnership agreement/letter of intent, together with individual track records of each party involved is to be provided	0 = No Response or no completion certificates to support submissions.
3.4.3.3	Provision of typical pump and piping design documents to demonstrate design experience with the following a) Piping & General Arrangement (P&ID and GA) b) Hydraulic Calculations c) Pump sizing	5 = All documentation supplied (P&ID, GA's, hydraulic calculations and Pump sizing) 4 = Only 2 of the requested documents supplied 2 = Only 1 of the requested documents supplied 0 = No response.
3.4.3.4	Provision of typical inspection checklists for a) Design verification b) Construction completion Checklist to include items to be inspected or verified by designer & installer.	5= Detailed method statement detailing how the Tenderer proposes to approach and execute the mechanical engineering works, design, manufacture, delivery, erection, commissioning, and handover 4 = Detailed method statement detailing how the Tenderer proposes to approach and execute the mechanical engineering works but not including some works either /or design, manufacture, delivery, erection, commissioning, and handover 2=Method Statement included but is not sufficient, intervention of the designer and installer not clearly indicated. 0 = No response

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No	Tender Returnable(s)	Scoring Criteria
3.4.3.5	Provision of a typical flushing and commissioning procedure for pump, piping and valve installations.	5 = Detailed flushing and commissioning procedure supplied for pump, piping and valves. 4 = Procedure supplied but does not cover all 3 installations 2 = Commissioning procedure ONLY or flushing procedure ONLY included OR not detailed 0 = No response.

3.4.4 Control and Instrumentation Evaluation Criteria

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.4	**Control and Instrumentation**	**15%**		
3.4.4.1	Company's background and experience on the design, installation, and commissioning of similar works in the technical specification.		20%	Provide **Testimonial and Project Completion Certificates** for at least 3 completed projects with a similar scope as Eskom technical specification on the design, installation, and commissioning of C&I works. The information provided should consist of but not limited to: a) Name project and the company for whom works were executed and services were rendered. b) Project Description and scope of the completed works. c) Construction durations. d) Verifiable reference for each project (Contact person) with contact details and designation. e) Authorised acknowledgement letter of completed works.

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No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.4.2	CV of the Professionally Registered Electrical and Electronics or Electronics Engineer/Technologist who will be responsible for the design, supply, installation, and commissioning of similar works.		40%	Provide CV of the Professionally Registered Electrical and Electronics or Electronics Engineer, with relevant design, installation, interfacing and commissioning experience with reference to the scope of works to include, but not limited to: i. Design, Installation, Intergration, Testing and Commissioning of systems on the Alstom or General Electric (GE) Alspa Series 6 Distributed Control System (DCS) ii. Proof evidence of expertise (references or letters) on the Alspa Series 6 DCS. iii. Proof certification of competency on Profibus and Ethernet/IP network protocol CV to indicate project names, project completion dates, project descriptions and project locations and 5 years' experience
3.4.4.3	CV of a DCS and PLC programmer with at least 6 years' experience on the General Electric (Alstom) Alspa Series 6 DCS and PLC (Siemens and Allen Bradely)		20%	Provide CV of DCS and PLC personnel who will be responsible for interfacing all field instrumentation and configuration on the PLC and DCS with 6 years' experience a. Proof evidence of expertise (OEM reference letters) on the Alspa Series 6 DCS. b. Competency proof certification (Level 2) on the Siemens (TIA portal and Step 7) and Allen Bradely Logic Controllers c. Proof certification of competency on Profibus and Ethernet/IP network protocol CV to indicate 6 or more years' relevant experience.
3.4.4.4	CV of Telecommunications/Network Engineer / Technician with demonstrated experience of minimum 6 years in industrial wireless networks		20%	Tenderer submits detailed CV of Telecommunications/Network Engineer / Technician with demonstrated experience of minimum 6 years in industrial wireless networks with the following certified certifications as evidence: ➢ Cisco Certified Wireless Network Associate (CCNA) **OR** Siemens Certified Professional for Industrial Networks (Siemens CEIN)

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3.4.4.1 Scoring criteria for Control and Instrumentation

No	Tender Returnable(s)	Scoring Criteria
3.4.4.1	Provide **Testimonial and Project Completion Certificates** for at least 3 completed projects with a similar scope as Eskom technical specification on the design, installation, and commissioning of C&I works. The information provided should consist of but not limited to: a) Name project and the company for whom works were executed and services were rendered. b) Project Description and scope of the completed works. c) Construction durations. d) Verifiable reference for each project (Contact person) with contact details and designation. e) Authorised acknowledgement letter of completed works.	5= Three or more testimonials and project completion certificates submitted of SIMILAR / RELATABLE work within the technical specification with all details complete 4= Two testimonials and project completion certificates submitted of SIMILAR / RELATABLE work within the technical specification with all details complete 2= One testimonials and project completion certificates submitted with minor SIMILAR / RELATABLE work OR details not included or complete 0= No certificates(s) submitted
3.4.4.2	Provide CV of the professionally registered Electrical and Electronics OR Electronics Engineer(s)/Technologist(s) Relevant design, installation, interfacing and commissioning experience with reference to the scope of works to include, but not limited to: a. Design, Installation, Intergration, Testing and Commissioning of systems on the Alstom or General Electric (GE) Alspa Series 6 Distributed Control System (DCS) b. Proof evidence of expertise (references or letters) on the Alspa Series 6 DCS. c. Proof certification of competency on Profibus and Ethernet/IP network protocol CV to indicate project names, project completion dates, project descriptions and project locations.	5= CV submitted for the Professionally registered Engineer(s)/Technologist(s) as per tender returnable(s) with full understanding and experience (6 years or more) on design, installation, interfacing and commissioning of Field instrumentation, PLCs and DCS and HMI. 4= CV submitted for the Professionally registered Engineer(s)/Technologist(s) as per tender returnable(s) with minor understanding and experience (4 years or more but less than 3 years) design, installation, interfacing and commissioning of Field instrumentation, PLCs and DCS and HMI. 2= CV submitted for the non-registered Engineer(s)/Technologist(s) with design or commissioning and Field, PLC or DCS (less than 3 years). 0= No CV submitted for the Professionally registered Engineer(s)/Technologist(s) as per tender returnable(s).

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No	Tender Returnable(s)	Scoring Criteria
3.4.4.3	Provide CV of a DCS and PLC programmer with at least 6 years' experience on the General Electric (Alstom) Alspa Series 6 DCS and PLC (Siemens and Allen Bradely) CV to indicate 6 or more years' relevant experience.	5= CVs submitted with proof evidence of expertise (OEM reference letters) on the Alspa Series 6 DCS, Competency proof certification (Level 2) on the Siemens (TIA portal and Step 7) and Allen Bradely Logic Controllers, Proof certification of competency on Profibus and Ethernet/IP network protocol with 6 or more years' experience reflected on their CVs. 4= CVs submitted with proof evidence of expertise (OEM reference letters) on the Alspa Series 6 DCS, Competency proof certification (Level 2) on the Siemens (TIA portal and Step 7) and Allen Bradely Logic Controllers, Proof certification of competency on Profibus and Ethernet/IP network protocol with 4 years' experience reflected on their CVs. 2= CVs submitted without proof evidence of either expertise (OEM reference letters) on the Alspa Series 6 DCS OR Competency proof certification (Level 2) on the Siemens (TIA portal and Step 7) and Allen Bradely Logic Controllers OR Proof certification of competency on Profibus and Ethernet/IP network protocol. With less than 3 years' relevant electrical installation experience reflected on their CVs 0 = No response
3.4.4.4	Tenderer submits detailed CV of Telecommunications/Network Engineer / Technician with demonstrated experience of minimum 6 years in industrial wireless networks with the following certified certifications as evidence: ➢ Cisco Certified Wireless Network Associate (CCNA) **OR** Siemens Certified Professional for Industrial Networks (Siemens CEIN)	5= Detailed CV with minimum 6 years' experience with either one of the certified certificates as evidence 2= Detailed CV with less than 6 years' experience with either one of the certified certificates as evidence 0= Detailed CV with minimum 6 years' experience without either one of the certified certificates as evidence

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3.4.5 Electrical Evaluation Criteria

Notes:

- Certified documents must not be older than 3 months before tender closing date.
- Submissions with references that cannot be traced will not be considered.
- Only work experience obtained after the electrical qualification and related to the required work will be considered.
- The minimum threshold for Electrical evaluation criteria is 70%

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.5	**Electrical**	**15%**		
3.4.5.1	Company experience on design, construction, and commissioning of electrical supply systems in Power Station or building services environment.		**20%**	Provide **Testimonial and Project Completion Certificates** for at least 3 completed projects with a similar scope of approach and execute the electrical engineering works design, manufacture/supply, delivery, installation, testing, commissioning, and handover of electrical supply systems/electrical works. The information provided should consist of but not limited to: a) Name project and the company for whom works were executed and services were rendered b) Project Description and scope of the completed works. Construction durations. c) Verifiable reference for each project (Contact person) with contact details and designation. d) Authorized acknowledgement letter of completed works.
3.4.5.2	Project execution (Electrical team) Organogram, qualifications and CVs of key personnel. The project key		**15%**	The Tenderer is required to demonstrate the ability to execute the project through a structured project team.

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	personnel shall include, but not be limited to the following roles: • Master Installation Electrician (MIE) and/or Installation Electrician • Commissioning team leader • Quality control • Electrical Draughts person • Electrical Supervisor • VSD specialist • Technicians			Therefore, provide an organogram, qualifications and CVs of all Key personnel proposed to execute the electrical scope in the project. **NB**: Organogram must clearly indicate core skills or positions in the project. • All CVs must have traceable references (company contact name, valid contact numbers and/or email address). • All key personnel must have at least 3-years experience in related works. • Certified copies of Electrical qualifications • Qualifications to include a copy of a valid MIE certificate and card that clearly indicates the MIE number for the MIE submission. • Qualifications to include a copy of a Certified Trade certificate for the supervisor.
3.4.5.3	Project Execution Plan or Methodology for execution and completion of electrical Works.		**30%**	Demonstrate how Tenderer intends on executing the project by specified target date by providing the following information for evaluation purposes: a) Provide a project methodology document detailing how the Tenderer proposes to approach and execute the electrical engineering works design, manufacture/supply, delivery, installation, testing, commissioning, and handover. b) Methodology must also include interfacing electrical equipment with C&I system.

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3.4.5.4	Compliance to Specification/Deviation Schedule		**25%**	The tenderer is required to complete technical "Schedule A and B" submitted with the enquiry. Deviation against the requirements should be clearly stated. Provide completed technical schedule provided for the following equipment: • Transformers • LV Switchgear/MCC. • Cables • Motors • And VSDs
3.4.5.5	Experience in Hazloc equipment and project execution.		**10%**	Provide a HAZLOC study report of similar works • Must be inclusive of equipment installed in a Coal area.

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3.4.5.1 Scoring criteria for Electrical

No	Tender Returnable(s)	Scoring Criteria
3.4.5.1	Provide **Testimonial and Project Completion Certificates** for at least 3 completed projects with a similar scope of design, construction and commissioning electrical supply systems/electrical works. The information provided should consist of but not limited to: e) Name project and the company for whom works were executed and services were rendered. f) Project Description and scope of the completed works. Construction durations. g) Verifiable reference for each project (Contact person) with contact details and designation. h) Authorized acknowledgement letter of completed works.	5 = Three or more testimonials and project completion certificates submitted of SIMILAR / RELATABLE work within the technical specification with all complete details. 4 = Two testimonials and project completion certificates submitted of SIMILAR / RELATABLE work within the technical specification with all details complete 2 = One testimonial and project completion certificates submitted with minor SIMILAR / RELATABLE work within the technical specification with all details complete. 0= Totally deficient or No response
3.4.5.2	The Tenderer is required to demonstrate the ability to execute the project through a structured project team. Therefore, provide an organogram, qualifications and CVs of all Key personnel proposed to execute the electrical scope in the project. **NB:** Organogram must clearly indicate core skills or positions in the project. • All CVs must have traceable references (company contact name, valid contact numbers and/or email address). • All key personnel must have at least 3-years experience in related work. • Certified copies of Electrical qualifications	5 = Electrical Team Organogram with 100% of the key personnel listed qualifications and CVs submitted. 4 = Electrical Team Organogram with 80% of the key personnel listed qualifications and CVs submitted. 2 = Electrical Team Organogram with 60% of the key personnel listed qualifications and CVs submitted. 0 = Totally deficient or No response.

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No	Tender Returnable(s)	Scoring Criteria
	• Qualifications to include a copy of a valid MIE certificate and card that clearly indicates the MIE number for the MIE submission. • Qualifications to include a copy of a Certified Trade certificate for the supervisor.	
3.4.5.3	Demonstrate how Tenderer intends on executing the project by specified target date by providing the following information for evaluation purposes: a) Provide a project methodology document detailing how the Tenderer proposes to approach and execute the electrical engineering works, design, manufacture, delivery, installation, commissioning, and handover. b) Methodology must also include interfacing electrical equipment with C&I system.	5= Detailed method statement detailing how the Tenderer proposes to approach and execute the electrical engineering works design, manufacture, delivery, installation, commissioning, and handover. 0 = Totally deficient or No response.
3.4.5.4	The tenderer is required to complete technical "Schedule A and B" submitted with the enquiry. Deviation against the requirements should be clearly stated. Provide completed technical schedule provided for the following equipment: • Transformers • LV Switchgear/MCC. • Cables • Motors • And VSDs	5 = Completed provided technical "schedule A and B" and meet technical requirement(s)/AND; No foreseen technical risk(s) in meeting technical requirements. 4 = Completed provided technical "schedule A and B" and meet technical requirement(s)/with; Acceptable technical risk(s) AND/OR; Acceptable exceptions/conditions. 0 = Totally deficient or No response.

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No	Tender Returnable(s)	Scoring Criteria
3.4.5.5	Provide a HAZLOC study report of similar works • Must be inclusive of equipment installed in a Coal area	5 = HAZLOC Study demonstrates compliance to SANS 10108 for all electrical equipment in hazardous locations similar works as the technical specification. 4 = HAZLOC Study demonstrates compliance to SANS 10108 for all electrical equipment in hazardous locations, but not similar works as the technical specification. 0= Totally deficient or No response.

3.4.6 Configuration Management Evaluation Criteria

No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.6	**Configuration Management**	**10%**		
3.4.6.1	The Tenderer to provide a comprehensive configuration management plan strategy for the project. The strategy includes how: - Documents and records will be managed, - CM tools to be used, - Facilitation of CM activities, - Engineering reviews & changes.		35%	Provides the configuration management plan that will be implemented in line with the ISO 10007 Guidelines for Configuration Management. The CM plan should reflect where Configuration Management is in the project Structure, a technical document and record management procedure, facilitation of CM activities, CM tools and as well as a Change management procedure they will be using.

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No	Description	Weighting	Sub-weighting	Tender Returnable(s)
3.4.6.2	The tenderer to demonstrate compliance to Eskom KKS Plant Coding standard and Labelling standard		30%	Provides a portfolio of evidence that reflects quality of coding. The *Contractor's* portfolio should contain a minimum but not limited to evidence stating the number of years of experience they have with regards to coding and previous coded designs per discipline. If a *Contractor* feels they do not meet the minimum requirements, they can submit the portfolio of the sub-contractor that they will use.
3.4.6.3	The Tenderer needs to provide a stipulated Handover procedure, stating when and how they plan, submitting Documentation to Eskom, in line to the agreed Vendor Document Submission Schedule (VDSS).		15%	The *Contractor* provides a stipulated handover procedure, stating when and how they plan on submitting documentation to the *Employer*, in line to the agreed Vendor Document Submission Schedule (VDSS).
3.4.6.4	The Tenderer shall submit a CV of a Technician/Engineer with a minimum of three years' experience in KKS coding and labelling.		20%	Provide CV technician/ engineer with minimum 3 years' experience in KKS coding and labelling.

3.4.6.1 Scoring for Configuration Management

No	Tender Returnable(s)	Scoring Criteria
3.4.6.1	Provides the configuration management plan that will be implemented in line with the ISO 10007 Guidelines for Configuration Management. The CM plan should reflect where Configuration Management is in the project Structure, a technical document and record management procedure as well as a Change management procedure they will be using.	5 = CM Strategy provided reflect all requirements do not meet standard. System and processes are clearly defined and meet all requirements. 4 = CM Strategy provided reflect three of the four requirements. System and processes are clearly defined. 2 = CM Strategy provided reflect two/ half of the requirements. System and processes are defined but do not meet all requirements. 0 = No Response

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No	Tender Returnable(s)	Scoring Criteria
3.4.6.2	Provides a portfolio of evidence that reflects quality of coding. The *Contractor's* portfolio should contain a minimum but not limited to evidence stating the number of years of experience they have with regards to coding and previous coded designs per discipline. If a *Contractor* feels they do not meet the minimum requirements, they can submit the portfolio of the sub-contractor that they will use.	5 = Evidence provided for Plant Labelling and Coding meet all Requirements. 4 = Evidence provided for Coding meet all Requirements but Drawing examples are from a sub-Contractor. 2 = Evidence provided for Plant Coding meet half the Eskom requirements. 0 = No response
3.4.6.3	The *Contractor* provides a stipulated handover procedure, stating when and how they plan on submitting documentation to the *Employer*, in line to the agreed Vendor Document Submission Schedule (VDSS).	5 = Handover procedure is in Line with Eskom Requirements and VDSS 4 = Handover procedure meets majority of the Eskom requirements and shows alignment with the VDSS. 2 = Handover procedure defined but does not meet Eskom Requirements. 0 = No response.
3.4.6.4	The Contactor to submit a CV of a Technician/Engineer with a minimum of three years' experience in KKS coding and labelling.	5 = CV(s) includes 3 or more years of experience KKS coding and labelling. 4 = CV(s) includes 2 or less years of experience KKS coding and labelling 2 = CV(s) is not in line with KKS coding experience. 0 = No Response.

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3.5 TET MEMBER RESPONSIBILITIES

Table 5 identifies the TET members allocated to review/evaluate each Qualitative criterion

Table 5: 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	TET 11
1		X	X								
2				X	X						
3						X	X				
4								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**	**TET 11**
3.4.1	X	X	X	X	X	X	X	X	X	X	X
3.4.2		X	X	X							
3.4.3				X	X						
3.4.4				X		X	X				
3.4.5				X				X	X		
3.4.6				X						X	X

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3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	None

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Exclusion of scope specified in the SOW
2.	Company and staff experience not adequate for the SOW
3.	Quality control of the project must be detailed with Employer hold points defined in detail

3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation without technical qualification not accepted

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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Royce Cole	Project Coordinator	
Bonolo Mampa	Civil Engineer	
Pakgadi Legodi	Civil Engineer	18/11/2025
Hardus Van Biljon	Senior Mechanical Engineer	
Letago Manyelo	Control and Instrumentation Engineer	
Joel Manamela	Control and Instrumentation Engineer	
Ivy Mosese	Electrical Engineer	
Thembelihle Majozi	Electrical Engineer	
Thambo Shiba	Configuration Management	
Mbhoni Chauke	Configuration Management	

5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2025	2	Mufarisi Manyuha	• Removal of CIDB rating from mandatory • Update on TET members
June 2025	1	Mufarisi Manyuha	Final Technical Evaluation Strategy

6. DEVELOPMENT TEAM

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

- Royce Cole
- Phethego Thankge
- Legato Manyelo
- Ivy Mosese
- Thambo Shiba

7. ACKNOWLEDGEMENTS

Katlego Mathibedi

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APPENDIX A

COMPETENCY DECLARATION FORM

Medupi Power Station, Certification of Buildings/Structure/Plant in accordance with Technical Specification for 241-2022602 Medupi Power Station EC 26027224 install pumps in all PCDs Scope of Work.

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 Technical Specification of 241-2022602 Medupi Power Station EC 26027224 install pumps in all PCDs 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:

(Insert number and ECSA/SACNSP)

Consultancy I am representing:

I will be performing the role of

Role as per mandatory criteria Section 5			
1	Please insert your Discipline	*Design Engineer/Technologist*	

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Section 3: Declaration by competent registered professional

I,..... *(Full name)*

Telephone number: .....

Declare that:

I fully understand the complete scope of work as defined in the Eskom Technical Specification document. **241-2022602 Medupi Power Station EC 26027224 install pumps in all PCDs Scope of Work** I am trained, educated, and experienced to undertake the rational design/assessment/investigations and associated construction monitoring of the Works defined in the Technical Specification.

1. I have the necessary competency and contextual knowledge to perform the professional services as defined in the Technical Specification**. (241-2022602**)
   - Assessment/analysis of constructed buildings/structures/systems/plants.
   - Perform testing/investigation/assessment to assess if design intent had been achieved during construction on already constructed Works as defined in the Technical Specification.
   - Conduct risk assessments and provide risk mitigation measure for Works where applicable as defined in the Technical Specification.
   - Ensure design intent and compliance is achieved on Works to be constructed as indicated in the Technical Specification.
2. I satisfied the necessary and relevant definition of competent person contained in SANS 10400, Construction Regulations and Engineering Council of South Africa.
3. My professional registration is current and not suspended or terminated and is appropriate in relation to the services as defined by the Technical Specification. (**241-2022602**)
4. I am intending to provide professional services as designer of the Works defined in the Technical Specification **241-2022602**.
5. 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.
6. All the information provide is to the best of my knowledge true and correct.

Signature of registered competent professional: .....

Date: .....

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