Eskom	Strategy	Engineering

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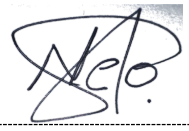	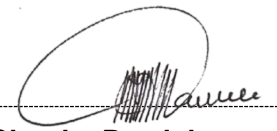	
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1. Introduction

Medupi Power Station requires the design, supply, installation, and commissioning of an Intelligent Plant Monitoring and Surveillance System (IPMSS). The system's primary purpose is to detect and alert against abnormal or unauthorized activities within the plant, while also supporting plant condition monitoring and the investigation of unauthorized plant trips.

The IPMSS will employ a multi-sensor approach, combining various surveillance and monitoring technologies suited to specific plant areas and risk levels. The project objective is for asset Monitoring and Management i.e., Implementing active, multi-sensor monitoring to improve real-time asset management and enhance plant reliability. Existing CCTV infrastructure within the Centralized Building Management System (CBMS) will be integrated into the IPMSS to expand coverage and ensure comprehensive site surveillance.

1.1 Scope

The scope of this document is limited to mandatory and qualitive technical evaluation criteria that will be used to evaluate proposals/tenders received from interested parties.

1.1.1 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.

1.1.2 Applicability

This document shall apply to Medupi Power Station.

1.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

1.2.1 Normative

[1] ISO 9001 Quality Management Systems

[2] 240-48929482 Generation Tender Technical Evaluation Procedure

[3] 32-1034 Eskom Procurement Policy

[4] 240-53113685 Design Review Procedure

[5] 240-53114002 Engineering Change Management Procedure

1.2.2 Informative

[1] 241-2022144 Medupi Power Station Technical Specification for an Intelligent Plant Monitoring and Surveillance System

1.3 Definitions

Definition	Explanation
Contractor/Service provider	Refers to the corporation appointed to perform the construction works required for the project.
Employer	Refers to Eskom Holdings State Owned Company
Eskom Plant Engineering	Refers to the Eskom Engineering team who will perform the reviews and provide technical assistance for the work performed by the appointed Contractor.
Specification	The document/s forming part of the contract in which the methods of executing the various items of work to be done is described, as well as the nature and quality of the materials to be supplied and it includes technical schedules and drawings attached thereto as well as all samples and patterns
The Client	The end user will be Eskom who will be represented by Medupi Power Station throughout the duration of the Project.

1.3.1 Classification

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

1.4 Abbreviations

Abbreviation	Explanation
OEM	Original Equipment Manufacturer
TET	Technical Evaluation Team
TTES	Technical Tender Evaluation Strategy

1.5 Roles and Responsibilities

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

1.6 Process for Monitoring

The primary process for monitoring will be governed by the Tender Technical Evaluation Procedure.

1.7 Related/Supporting Documents

241-2022144 Medupi Power Station Technical Specification for an Intelligent Plant Monitoring and Surveillance System.

2. Tender Technical Evaluation Strategy

2.1 Technical Evaluation Method

Stage 1: The Mandatory Technical Evaluation Requirements (Gatekeepers) represent the essential criteria that must be fully complied with. These requirements are not scored or weighted but are assessed on a Yes/No basis. Failure by a service provider to meet any of these mandatory conditions will result in technical disqualification, and the tender will not advance to the Qualitative Evaluation stage.

Stage 2: The Qualitative Technical Evaluation Requirements comprise the weighted evaluation factors used to determine the highest-ranked service provider among those meeting all mandatory requirements. Each qualitative criterion is assigned a specific weighting reflecting its relative importance to the project objectives. To be deemed technically compliant, a service provider must obtain a minimum overall weighted score of 85% in the qualitative evaluation.

Table 1: Scoring Method

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

2.2 Technical Evaluation Threshold

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 85%.

2.2.1 TET members

Table 2: TET Members

TET number	TET Member Name	Designation

TET 1	Malesela Madiseng	C&I Engineer-in-Training
TET 2	Albert Malapile	C&I Chief Engineer
TET 3	Adolph Shirinda	Project Co-Ordinator
TET 4	Hamilton Rahlana	C&I Engineering Senior Technician (Lead)
TET 5	Ernest Morolong	C&I Maintenance Senior Technician:
TET 6	Tumelo Chauke	C&I Maintenance Senior Supervisor

2.3 Mandatory Technical Evaluation Criteria

Table 3: Mandatory Technical Evaluation Criteria

No	Mandatory Technical Criteria Description	Tender Returnable(s)	Motivation for use of Criteria
2.3.1	Lead designer is a professionally registered engineer(s)/ technologist engineer(s) with ECSA, with experience in design, construction, manufacture, supply, installation and commissioning of a CCTV System as specified in the technical specification 241-2022144.	Provide the Curriculum Vitae (CV) of the professionally registered C&I/Electronic Engineer(s) or Technologist(s) with relevant experience in design, construction, commissioning, and project supervision aligned with the defined scope of works. I. The CV shall include, but not be limited to, experience in the design, installation, and commissioning of CCTV II. The CV must clearly indicate project titles, completion dates, project descriptions, and locations. Proof of ECSA registration for the appointed Professional Engineer(s) or Technologist(s) responsible for certification/approval of the works, as defined in the scope of work, shall be provided. One of the following will be accepted as valid evidence:	Yes – CV submitted for a professionally registered Engineer(s)/Technologist(s), in accordance with the tender returnable, demonstrating a comprehensive understanding and a minimum of five (5) years' experience in CCTV System design, installation, and commissioning. Evidence of ECSA professional registration provided in the form of (I), (II), (III), (IV) or (V). No – No CV submitted for a professionally registered Engineer(s)/Technologist(s) as required in the tender returnable or CV does not consist of the requirement s as per the tender returnables(s).

		I. A screenshot from the ECSA website confirming active registration status and registration date; or II. A signed letter from ECSA verifying active professional registration and registration date; or III. A copy of the ECSA Professional registration certificate; or IV. The ECSA Professional registration number; or V. The ECSA Professional registration QR code. a) **Note:** The information provided will be used to verify the active registration status of the Professional Engineer(s)/Technologist(s)	
2.3.2	Company background and relevant experience in the design, installation, and commissioning of works similar to those described in the technical specification.	Provide testimonials and project completion certificates for a minimum of three (3) successfully completed projects of a similar nature and scope to the Eskom technical specification, specifically relating to the design, installation, and commissioning. The submission shall include, but not be limited to, the following details:	Yes – Submission includes three or more testimonials and project completion certificates for similar or related works as outlined in the technical specification, with all required details fully provided. No – Submission includes less than three or none of the testimonials and project completion certificates for similar or related works as outlined in the technical specification.

		I. Name of the project and the client company for whom the works and services were undertaken. II. Description of the project and scope of the completed works. III. Duration of construction. IV. Verifiable reference for each project, including the contact person's name, designation, and contact details. Official letter of acknowledgement confirming completion of the works.	

2.4 Qualitative Technical Evaluation Criteria

2.4.1 Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2.4.1.1	The service provider shall submit a current and detailed company profile aligned with the Scope of Works. An organogram must be included, illustrating the organisational structure and chain of command to support the requirements of the Scope of Works.	Provide an organogram illustrating the key personnel of the main contractor and the design team. The organogram must, at a minimum, include the essential positions listed below. a) Project Manager b) ECSA registered Professional Engineer(s)/ Technologist Engineer(s) approving designs for project c) Site engineer d) Project Planner e) Configuration and Document Management f) QA/QC personnel The organogram shall be supported by a formal letter confirming the availability of the proposed project team for the entire project duration. Any replacement of team members shall only be permitted with individuals possessing equal or higher qualifications and competence and must be approved by the Client prior to implementation.	10%	5 – Submission includes the organogram illustrating the key personnel of the main contractor and the design team including all essential positions as indicated on the Tender Returnable of this aspect. 4 – Submission includes the organogram illustrating the key personnel of the main contractor and the design team including most essential positions as indicated on the Tender Returnable of this aspect. 2 – Submission includes the organogram illustrating the key personnel of the main contractor and the design team including some essential positions as indicated on the Tender Returnable of this aspect. 0 – No submission or the submission does not include the organogram illustrating the key personnel of the main contractor and the design team including all essential positions as indicated on the Tender Returnable of this aspect.

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2.4.1.2	The service provider shall provide a detailed method statement outlining the approach to be followed during installation activities, including the duration of each task, the resources required, and the health and safety measures to be implemented. The method statement and associated activities must align with the Scope of Works.	The Service provider shall demonstrate the approach to executing the project functions i.e., design or design review, procurement, construction, commissioning, inspection, training, and the corresponding implementation locations, by submitting a high-level programme indicating key milestones and completion dates for each project phase, namely design or design review, construction, commissioning, and final handover.	15%	5 – The Service provider submitted a detailed method statement illustrating the information required as per the tender returnable of this aspect. 4 – The Service provider submitted a detailed method statement illustrating most of the information required as per the tender returnable of this aspect. 2 – The Service provider submitted a detailed method statement illustrating some of the information required as per the tender returnable of this aspect. 0 – The Service provider did not submit a method statement or submitted a method statement not detailed in accordance with the tender returnable of this aspect.

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2.4.1.3	A qualified Electrical Technician responsible for supervising all electrical installation activities and issuing Certificates of Compliance (COCs).	Provide the Curriculum Vitae (CV) of professionally registered personnel who will be responsible for overseeing all electrical installation works and issuing Certificates of Compliance (COCs). I. Department of Labour (DoL)–registered Electrician or Technician. The CV must clearly demonstrate a minimum of five (5) years of relevant experience in electrical installations.	10%	5 – CVs submitted with valid proof of Department of Labour (DoL) certification, demonstrating a minimum of five (5) years of relevant electrical installation experience. 4 – CVs submitted with valid proof of DoL certification, demonstrating between three (3) and five (5) years of relevant electrical installation experience. 2 – CVs submitted with valid proof of DoL certification, demonstrating less than three (3) years of relevant electrical installation experience. 0 – CV not submitted but a valid DoL certificate was provided, or both the CV and DoL certificate were not submitted.

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2.4.1.4	Control and Instrumentation (C&I) Engineering Compliance Documentation	Submit engineering documentation outlining the standards applied including instrumentation, cabling, control equipment, and the CCTV Monitoring systems. The Service provider shall demonstrate compliance with these standards in accordance with the Vendor Document Submittal Schedule (VDSS).	15%	5 – Three (3) or more references submitted for similar or related works as specified in the technical specification, with all required details fully provided. 4 – Two (2) references submitted for similar or related works as specified in the technical specification, with all required details fully provided. 2 – One (1) reference submitted for minor similar or related works, or with incomplete or missing details. 0 – No reference(s) submitted.

2.4.1.5	Quality Control Plan (QCP) with samples from similar previous work	The service provider shall submit a draft Quality Control Plan (QCP) that aligns with the Scope of Work and project requirements. The service provider shall also provide a high-level design of the proposed solution. This design must include: • The network architecture, clearly indicating connectivity points, communication protocols, and system integration interfaces. • Data flow diagrams illustrating how data moves within the system. • Original Equipment Manufacturer (OEM) details, specifying hardware and software components, licensing requirements, and available support options.	10%	5 – A comprehensive Quality Control Plan (QCP) layout is submitted, covering all items within the Scope of Work, including Eskom intervention points and sign-off requirements. Includes a high-level design containing detailed information on the OEM hardware, software components, licensing options, and available support provisions. 4 – The QCP layout is submitted, but some Scope of Work items and Eskom intervention points are omitted. Includes the high-level design with the OEM information but provides limited details regarding licensing and support options. 2 – The QCP layout excludes several Scope of Work items and multiple Eskom intervention points. Includes the high-level design that lacks clear data flow representation and does not include OEM information. 0 – No QCP layout is submitted and no high-level design is provided.

2.4.1.6	Assurance of Work Quality and Support	The Service Provider shall provide a service guarantee of 24 months, or as otherwise specified in the Scope of Work (SOW), covering the quality and performance of all work executed. The Service Provider shall guarantee the availability of all products and spare components used in the implementation of the SOW for a minimum period of five (5) years, or as otherwise specified in the SOW. The Service Provider shall provide proof of local after-sales support for the proposed solution and guarantee the availability of such support for a minimum of five (5) years, or as outlined in the SOW. The Original Equipment Manufacturer (OEM) shall provide a Software Roadmap, detailing future product developments, feature enhancements, patches, service packs, and revision schedules. The Service Provider shall supply proof of OEM partnership or validation reports confirming that the products to be utilized are approved and supported by the OEM, in accordance with the activities specified in the SOW.	10%	5 – A formal letter of commitment shall be provided, confirming a 100% refund or full rectification of any failures occurring within 24 months after implementation, as well as a guarantee for refund or replacement of any failed components or systems within the same period. The submission shall include OEM documentation demonstrating full compliance with all relevant safety standards for the supplied products, along with a letter verifying the existence of a local support base, complete with valid contact details, evidence of active end-user support, and proof of local technical expertise. Additionally, the OEM shall provide a software roadmap covering a minimum of 10 years, outlining critical patches, service packs, and major revisions, and a letter confirming third-party validations and product interoperability for all solution components. 4 – A letter confirming a 100% refund for failures, subject to the conditions

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				outlined in the tender, shall be provided. OEM documentation should demonstrate partial compliance with safety standards. A support letter must include valid contact details and evidence of active end-user support; however, key technical expertise may not be locally available. The software roadmap should be submitted but may lack clear timelines or milestones for major updates. Additionally, OEM or partner validation letters should cover some products, though critical or major components may be excluded.

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				2 – A letter outlining a refund policy contingent on joint investigation by both the employer and service provider for failures within 24 months of implementation or spare supply shall be provided. Documentation should indicate partial compliance with relevant power station standards. Support letters may specify online assistance only, with no local technical presence. The software roadmap may be limited, lacking details on timelines, critical patches, major revisions, and rollback policies. OEM or partner validation may cover some products but exclude key system components.

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				0 – A letter indicating no refund (0%) for failures within 52 weeks shall be provided. No documentation is submitted to demonstrate compliance with power station standards, aftersales support, or local technical capability. Additionally, no software roadmap outlining major revisions or critical patches is included, nor any evidence of product validation or third-party partnerships.

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2.4.1.7	Professional Development and Training	The Service Provider shall appoint Responsible Persons in accordance with the PSR. A comprehensive OT training program covering safety, task methodology, and quality management shall be implemented, detailing tasks and subtasks. Records of completed training for all employees must be maintained and reflected in the personnel database.	10%	5 – Three (3) Responsible Persons (RPs) appointed. Comprehensive training program covering safety, task methods, and quality control, with a maintained trainee database. 4 – Two (2) Responsible Persons (RPs) appointed. Training program includes safety, task methods, and quality control, but lacks a trainee database. 2 – One (1) Responsible Person (RP) appointed. Training program covers safety and task methods only, with no quality control component or trainee database. 0 – No Responsible Persons (RPs) appointed.

2.4.2 Configuration And Documentation Management

Table 4: Configuration and Documentation Management

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)

2.4.2.1	The Service provider shall provide a comprehensive Configuration Management (CM) Plan and strategy for the project. The strategy shall clearly outline the approach to: • Management and control of project documents and records; • Configuration management tools to be utilized; • Coordination and facilitation of CM activities; and • Processes for conducting engineering reviews and implementing design changes.	Provide a Configuration Management (CM) Plan to be implemented in accordance with the ISO 10007 Guidelines for Configuration Management. The CM Plan shall clearly define the placement of Configuration Management within the project structure and include detailed procedures for technical document and record management, as well as the change management process to be applied.	5%	5 – Configuration Management (CM) Strategy provided addresses all required elements. Systems and processes are clearly defined and fully compliant with the specified standards and requirements. 4 – CM Strategy provided addresses three out of the four required elements. Systems and processes are clearly defined and demonstrate a good level of compliance. 2 – CM Strategy provided addresses only two (or approximately half) of the required elements. Systems and processes are defined, but do not fully meet the specified requirements. 0 – No response or CM Strategy not submitted.

2.4.2.2	The Service provider shall demonstrate compliance with Eskom's KKS Plant Coding Standard and Equipment Labelling Standard.	Provide a comprehensive portfolio of evidence demonstrating the quality and standard of coding work. The Contractor's portfolio shall include, at a minimum, but not be limited to, proof of relevant experience indicating the number of years in coding activities, a valid KKS certification, references, and examples of previously completed coded designs. Should the Contractor not meet the minimum requirements, a portfolio from the proposed Subcontractor may be submitted in support of this criterion.	5%	5 – Evidence provided for plant labelling and coding fully meets all specified requirements. 4 – Evidence provided for coding meets all specified requirements; however, drawing examples are sourced from a subcontractor. 2 – Evidence provided for plant coding meets only a portion (approximately half) of Eskom's requirements. 0 – No response or supporting evidence submitted.

2.4.2.3	The Service provider shall provide a clearly defined handover procedure outlining the planned timing and process for submitting documentation to Eskom, in accordance with the agreed Vendor Document Submittal Schedule (VDSS).	The Contractor shall provide a clearly defined handover procedure detailing the timing and method for submitting documentation to the Employer, in accordance with the agreed Vendor Document Submittal Schedule (VDSS).	5%	5 – Handover procedure fully complies with Eskom requirements and is aligned with the Vendor Document Submittal Schedule (VDSS). 4 – Handover procedure meets the majority of Eskom requirements and demonstrates clear alignment with the VDSS. 2 – Handover procedure is defined but does not meet Eskom requirements or lacks sufficient alignment with the VDSS. 0 – No response or handover procedure submitted.
2.4.2.4	The Service provider shall submit the Curriculum Vitae (CV) of a Technician or Engineer possessing a minimum of three (3) years of relevant experience in KKS coding and labelling.	Provide the Curriculum Vitae (CV) of a Technician or Engineer with a minimum of three (3) years of relevant experience in KKS coding and labelling.	5%	5 – CV(s) demonstrate three (3) or more years of relevant experience in KKS coding and labelling. 4 – CV(s) demonstrate one (1) to two (2) years of relevant experience in KKS coding and labelling. 2 – CV(s) provided do not reflect relevant experience in KKS coding and labelling. 0 – No response or CV(s) submitted.

2.5 Tet Member Responsibilities

Table 5: Tet Member Responsibilities

Mandatory Criteria Number	TET 1 Malesela Madiseng	TET 2 Albert Malapile	TET 3 Adolph Shirinda	TET 4 Hamilton Rahlana	TET 5 Ernest Morolong	TET 6 Tumelo Chauke
2.3.1	X	X	X	X	X	X
2.3.2	X	X	X	X	X	X
Qualitative Criteria Number Technical Evaluation Criteria	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
2.4.1.1	X	X		X	X	X
2.4.1.2	X	X		X	X	X
2.4.1.3	X	X		X	X	X
2.4.1.4	X	X		X	X	X
2.4.1.5	X	X		X	X	X
2.4.1.6	X	X		X	X	X
2.4.1.7	X	X		X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6

Configuration And Documentation Management						
2.4.2.1	X	X	X	X	X	X
2.4.2.2	X	X	X	X	X	X
2.4.2.3	X	X	X	X	X	X
2.4.2.4	X	X	X	X	X	X

2.7 Foreseen Acceptable / Unacceptable Qualifications

2.7.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	**N/A**

Table 7: Unacceptable Technical Risks

Risk	Description
1.	The staff organogram lacks clarity, with the staffing plan not clearly defining the allocation of tasks and responsibilities.
2.	Risk mitigation strategies and assumptions are unreasonable and not achievable.
3.	Operating outside the defined project scope.

2.7.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Technical qualification deviations may be considered acceptable pending thorough evaluation and formal acceptance by the Tender Evaluation Team (TET).

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation without technical qualification not accepted.

3. Acceptance

This document has been seen and accepted by:

Full Name and Surname	Designation
Zubair Moola	C&I Chief Engineer
Lerato Sehume	C&I Maintenance Manager
Albert Malapile	C&I Chief Engineer
Adolph Shirinda	Project Co-ordinator Tech
Rahlana Matome	C&I Engineering Senior Technician
Malesela Madiseng	C&I Engineer in Training
Tumelo Chauke	C&I Maintenance Senior Supervisor
Ernest Morolong	C&I Maintenance Senior Technician

4. Revisions

Date	Rev.	Compiler	Remarks
October 2025	1	Neo Naphthan Nemulalate	Initial Document

5. Development Team

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

- Rahlana Matome
- Nemulalate Neo

6. Acknowledgements

- Rahlana Matome