

	Technical Evaluation Criteria	Distribution
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Title: **Technical Evaluation Criteria for Simmerpan UPS and Generator Replacement Project** Document Identifier: **559-531039508**

Alternative Reference Number: **n/a**

Area of Applicability: **Gauteng Cluster**

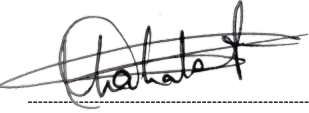
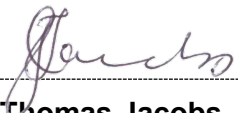
Functional Area: **Properties**

Revision: **1**

Total Pages: **31**

Next Review Date: **n/a**

Disclosure Classification: **Controlled Disclosure**

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Content

	Page
1. Introduction.....	4
2. Supporting Clauses	4
2.1 Scope.....	4
2.1.1 Purpose.....	4
2.1.2 Applicability	4
2.1.3 Effective date.....	4
2.2 Normative/Informative References	4
2.2.1 Normative.....	4
2.2.2 Informative.....	5
2.3 Definitions	5
2.4 Abbreviations	5
2.5 Roles and Responsibilities	6
2.6 Process for Monitoring.....	6
2.7 Related/Supporting Documents.....	6
3. Tender Technical Evaluation Criteria	6
3.1 General	6
Table 1: Technical Evaluation Criteria Stages and respective weighting.....	6
3.2 Mandatory Requirements Evaluation.....	7
3.3 Technical Qualitative Requirements Evaluation.....	8
3.3.1 Technical Schedule A&B	9
3.3.2 Technical Proposal Evaluation.....	10
3.3.3 Deemed Offer Risk Evaluation.....	12
4. Tender Returnables	15
4.1 General	15
4.2 Consistency and Order of Precedence	15
4.3 Type Testing	16
4.4 OEM Agent Agreement requirements.....	16
5. Acceptance.....	16
6. Revisions.....	17
7. Development Team	17
8. Acknowledgements	17
Appendix A – Deemed Offer Risk Evaluation Verification Checklists.....	18
1. Factory / Workshop Verification Checklist	20
2. Verification Summary and Deemed Offer Risk Inputs.....	23
3. Declaration and Sign-Off.....	24
1. Reference-Site Verification Checklist	26
2. Structured Client Interview	28

CONTROLLED DISCLOSURE

3. Verification Summary and Deemed Offer Risk Inputs.....	30
4. Declaration and Sign-Off.....	30

Figures

Figure 1: Technical Evaluation Flow Diagram	7
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Tables

Table 1: Technical Evaluation Criteria Stages and respective weighting	6
Table 2: Mandatory Technical Requirements Evaluation.....	8
Table 3: Scoring of Items in Technical Schedules A&B	9
Table 4: Technical proposal evaluation criteria	11
Table 5: Scoring of Items in technical proposal	11
Table 6: Deemed Offer Risk Evaluation areas	12
Table 7: Scoring of Items in Deemed Offer Risk Evaluation	13

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1. Introduction

Eskom Distribution has implemented a national initiative to improve the resilience, reliability, and availability of standby power systems within Distribution Network Management Centres and associated critical information technology facilities. The Simmerpan Network Management Centre and the Dx IT Data Centre, which support critical SCADA, operational control, server, monitoring, and communication systems requiring continuous and secure power supply.

The existing standby power infrastructure has been assessed and found to require replacement and enhancement to address limitations in redundancy, maintainability, system robustness, and long-term operational reliability. Given the critical nature of the supported loads, the proposed standby power solution must provide high availability, improved fault tolerance, adequate autonomy, and compliance with applicable Eskom and recognised international standards.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The report provides the technical evaluation criteria relating to a commercial enquiry for the design, manufacture at works, testing, quality assurance, delivery to site or Eskom stores, off-loading, erection, commissioning, decommissioning; installation and disposal of standby power systems equipment and balance of plant, as detailed in 559-531039508, User Requirement Specification for Simmerpan NMC and IT Data Centre Standby Power System Project.

This document covers the criteria and scoring in terms of how Eskom intends to evaluate the tenders for this project.

2.1.2 Applicability

This document shall apply to the project for standby power systems equipment and balance of plant, as detailed in 559-531039508, User Requirement Specification for Simmerpan NMC and IT Data, Centre UPS and Generator Systems Replacement Project.

2.1.3 Effective date

Authorization date.

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] ISO 9001, Quality Management Systems
- [2] ISO 14001, Environmental Management Systems

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- [3] 240-53114248, Thyristor and switch mode chargers, AC/DC to DC/AC converters and inverter /uninterruptible power supplies standard
- [4] 240-56360034, Stationary Vented Lead Acid Batteries Standard
- [5] 240-56360086, Specification for Vented, Nickel Cadmium Cells and Batteries
- [6] 240-51999453, Standard Specification for Valve-regulated Lead-acid Cells
- [7] 240-170000103, Lithium-ion Phosphate (LFP) Batteries Standard
- [8] 240-89797258, The safe handling, transportation and disposal of cells, batteries and electrolyte
- [9] 240-56177186, Battery Room Standard
- [10] 240-56176852, Essential Power Supplies for Power Stations Standard
- [11] 240-118870219, Standby power systems topology and autonomy for Eskom
- [12] 240-56362221, Standard for safety signs used in DC applications
- [13] 32-1034, Eskom Procurement and Supply Chain Management Procedure, Rev 4
- [14] 240-48929482, Tender Technical Evaluation Procedure
- [15] 559-245669555, User Requirement Specification for Simmerpan UPS and Generator Replacement Project
- [16] 559-531039508_1, Technical Schedule A&B for Simmerpan UPS and Generator Replacement Project

2.2.2 Informative

- [17] 240-61182045, Maintenance Engineering Standard for batteries and chargers.

2.3 Definitions

Definition	Explanation
Technical Evaluation Team	The persons appointed by Eskom to perform the evaluation of tender submissions in line with Eskom's requirements.
Normative	Documents that shall be read in conjunction with this report and are binding on tenderers.

2.4 Abbreviations

Abbreviation	Explanation
CV	Curriculum Vitae
EPC	Engineer, Procure and Construct
FAT	Factory Acceptance Test
IT	Information Technology
ITP	Inspection Test Procedure
NMC	Network Management Centre
OEM	Original Equipment Manufacturers
RFI	Radio Frequency Interference

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Abbreviation	Explanation
SAT	Site Acceptance Test
TET	Technical Evaluation Team
UPS	Uninterruptible Power Supply
URS	User Requirements Specification

2.5 Roles and Responsibilities

- a) Eskom shall utilise this document as the basis for the technical evaluation process.
- b) Tenderers shall note the evaluation criteria as laid out in this document and submit tenders in compliance to the stipulated requirements.

2.6 Process for Monitoring

Eskom will monitor the compliance to this document.

2.7 Related/Supporting Documents

Not applicable.

3. Tender Technical Evaluation Criteria

3.1 General

- a) The evaluation exercise is performed by the Eskom technical evaluation team.
- b) The evaluation method has five main evaluation stages as indicated in Table 1 with detailed evaluation methodologies provided in Sections 3.2 to 3.5. The flow diagram is indicated in Figure 1.

Table 1: Technical Evaluation Criteria Stages and respective weighting

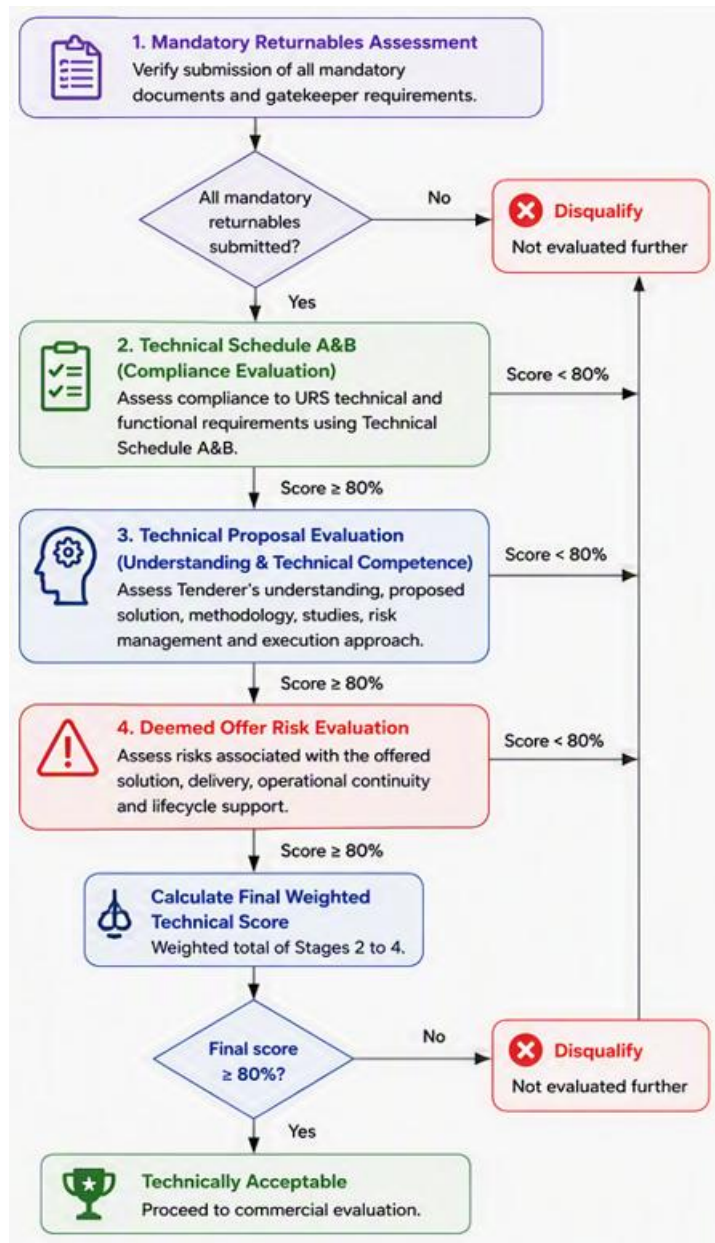
#	Evaluation stage	Purpose	Threshold	Contribution to final score
1	Mandatory requirements	Verify completeness and responsiveness	Pass all	Not weighted
2	Technical Schedule A&B	Assess compliance with URS requirements	≥80%	40%
3	Technical Proposal evaluation	Assess understanding and technical competence	≥80%	45%
4	Deemed offer risk evaluation	Assess overall technical, delivery, operational and lifecycle risk, informed by EPC capability findings	≥80%	15%
5	Final technical score	Consolidated result	≥80%	100%

- c) Tenderer's offers must achieve at least the threshold for each stage to qualify for evaluation under a subsequent stage.

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- d) Tenderers that do not achieve at least the threshold for a stage will not be evaluated further.

Figure 1: Technical Evaluation Flow Diagram



3.2 Mandatory Requirements Evaluation

- This part of the evaluation starts when submissions are opened and assessed for the first time.
- The Eskom TET will go through the details of the returnable submissions that are required and will ensure that all the Mandatory Requirements are met.

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- c) Submissions that receive a “No” for any of these requirements will not be able to proceed to the ‘Technical Qualitative Requirements Evaluation’ stage and therefore will fail the technical evaluation.
- d) Table 2 indicates the Mandatory technical requirements, of which a copy is provided in the Technical Schedules A&B for completion by the tenderer.

Table 2: Mandatory Technical Requirements Evaluation

#	Mandatory Technical Criteria Description	Tender Returnable
1	Is all critical information supplied in English?	Yes
2	Completed Technical Schedules A&B on the provided MS Excel format submitted?	Yes
3	Project-specific Technical Proposal	Yes
4	Compliance with and submission of the type test certificates for the main equipment as indicated in Technical Schedule A&B.	Yes
5	Duly completed and signed declaration of Deviations to the referenced Technical Standards. A signed “pdf” version shall be submitted.	Yes
6	CVs for key persons as per Section 4.4 that will be involved with this contract. Compliance with key personnel competency requirements as per Section 3.5.3 of 559-245669555.	Yes
7	OEM support and authorisation pack for the major offered equipment. Tenderer has submitted an OEM letter meeting the requirements as listed in Section 4.4.	Yes
8	Portfolio of evidence of comparable projects and contactable references	Yes
Threshold: Should the tenderer fail to meet ANY ONE of the above requirements they will be automatically disqualified.		

3.3 Technical Qualitative Requirements Evaluation

- a) This stage shall comprise of scoring the tender based on the level of compliance to the requirements as detailed in 559-245669555, User Requirement Specification for Simmerpan UPS and Generator Replacement Project.
- b) Only submissions that pass the ‘Technical Qualitative Requirements Evaluation’ scoring threshold of 80% for each preceding sub-category (see Table 1) will proceed to sub-sequent stages stage.
- c) Each item is assigned a score by the Eskom evaluation team (using Table 3 below), based on the tendered response and cross-checked with the supporting documents provided (where applicable).
- d) A default weight of 1 is used for each scored item, however, critical items are assigned higher weights.
- e) The score for each item will be multiplied by its weight to obtain the total score per item (Weight x Score from Table 3).
- f) Tender responses claiming compliance to an item (e.g., ‘Fully Comply’) but which are found to be partially compliant or non-compliant during verification will be assigned the corresponding score by the Eskom TET.

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- g) Items for which full compliance is not claimed (e.g., 'Do Not Comply', 'Partially Comply'), but which are found to be fully compliant during verification will be scored as per the tendered response.
- h) Items for which a response is expected (required) and no response is provided, shall automatically be scored as 'Do Not Comply'.
- i) All scores will be tallied, and a percentage shall be calculated based on the maximum possible score.

Table 3: Scoring of Items in Technical Schedules A&B

Criteria	Score
Fully Comply	3
Partially Comply	1
Do Not Comply	0

3.3.1 Technical Schedule A&B

- a) The tenderers shall respond in the provided fields i.e. columns titled "Schedule B (Compliance)" and "Reference / Statement (Supporting Evidence)" of the Technical Schedules.
- b) The tenderers shall respond to ALL requirements as stated in the Technical Schedule A&B.
- c) These are the MAIN clauses that will be used to assess the TECHNICAL ACCEPTABILITY of a tender.
- d) The requirements stated in the Technical Schedules A&B are not necessarily verbatim clause/s as per 559-245669555, User Requirement Specification for Simmerpan UPS and Generator Replacement Project. Therefore, it is OBLIGATORY on the tenderer to review the applicable clauses in 559-245669555, User Requirement Specification for Simmerpan UPS and Generator Replacement Project, to provide an informed response.
- e) Tenderers are encouraged to complete these technical schedules as thoroughly as possible as this information gives the customer a comprehensive overview of the offering.
- f) Should it be determined at any stage that a tenderer was dishonest in the tender responses, Eskom reserves the right to disqualify the tenderer and cancel the contract where applicable.
- g) When completing the "Schedule B (Compliance)" and "Reference / Statement (Supporting Evidence)" columns, the tenderer is requested to be cognisant that it is expected of the tenderer to state clearly, for each clause that requires a statement of compliance in the "Schedule B (Compliance)" column, with one of the following options (A drop down list with these options have been provided in Schedule B):
 - 1) Comply - Confirmation of FULL compliance to all clauses of the applicable Section of the Technical Standard. NO deviations.
 - 2) Partially Comply - Confirmation of PARTIAL Compliance and that FULL Compliance is not possible. Deviations taken. Non-compliances also possible.
 - 3) Do Not Comply - Confirmation of Non-compliance to ALL requirements in Section.

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- h) Where supporting documentation is requested i.e. indicated as “Comply with Reference” in Schedule A, the tenderer shall provide the name of the applicable file containing the Supporting Evidence Table, in the “Reference / Statement (Supporting Evidence)” column of the Technical Schedules.
- i) Where supporting documentation is NOT requested i.e. indicated as “Comply without Reference” in Schedule A, the tenderer shall state the level of compliance which shall serve as a confirmation and commitment of intended compliance at a later stage of the project.
- j) The tenderer shall list ALL the Deviations taken on the applicable Deviation Schedules. Reasons for deviations as well as alternatives shall be clearly stated. The applicable document reference number and title shall be stated with the exact clause and deviation stated.

3.3.2 Technical Proposal Evaluation

- a) The Technical Proposal Evaluation assesses whether the Tenderer has correctly understood the project and has proposed a coherent, technically sound, maintainable and executable solution for the Simmerpan NMC and Dx IT Data Centre. This evaluation is separate from the Technical Schedule A&B compliance assessment.
- b) The Tenderer shall submit a project-specific Technical Proposal. The proposal shall demonstrate understanding of the existing installations, the required end-state architecture, the engineering approach, implementation risks, operational continuity requirements and the Tenderer's capability to deliver the complete Works. Generic brochures or unreferenced marketing material shall not constitute a Technical Proposal.
- c) The Technical Proposal shall be concise, project-specific and cross-referenced to the URS, Technical Schedule A&B and supporting evidence.
- d) The designs shall align with Eskom standards and industry best practices, e.g. Uptime Institute, etc.
- e) As a minimum, it shall include:
 - 1) executive project understanding, including the existing NMC and Dx IT Data Centre installations, deficiencies, interfaces and site constraints;
 - 2) proposed end-state architecture and operating philosophy for normal, abnormal, maintenance and emergency conditions;
 - 3) concept single-line diagrams for both sites showing U1, U2, generators, ATS/ASTS, UPS systems, battery systems, NMC DC system, distribution boards, critical loads and monitoring interfaces;
 - 4) engineering assessment and design methodology, including the required load, fault-level, protection, earthing, harmonic, generator transient, UPS-generator compatibility, battery sizing, HVAC, fire risk assessment, availability and single-point-of-failure studies;
 - 5) equipment-selection and integration philosophy, identifying the offered technologies, maintainability, scalability, supportability and design life;
 - 6) project execution methodology, programme, work breakdown structure, responsibilities, interfaces, long-lead items and design-review hold points;
 - 7) operational-continuity, temporary-power, outage, cut-over and rollback strategy for the live mission-critical facilities;
 - 8) FAT, SAT, commissioning, autonomy testing, integrated-system testing and performance-verification strategy;

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- 9) project-specific risk register addressing technical, operational, safety, supply-chain, construction, commissioning, cybersecurity and schedule risks;
- 10) training, O&M, spares, warranty, lifecycle support, obsolescence management and handover strategy; and
- 11) project organisation, key personnel, subcontracted scopes and reference projects.
- f) The Technical Proposal shall be evaluated against the weighted criteria indicated in Table 4.

Table 4: Technical proposal evaluation criteria

Item	Technical Proposal Evaluation Criterion	Weight
1	Project understanding and identification of existing-system constraints	10%
2	Proposed system architecture, operating philosophy, redundancy, maintainability and concept single-line diagrams	20%
3	Engineering assessment, design methodology and required system studies	15%
4	Proposed equipment and system-integration philosophy	10%
5	Execution methodology, programme, work breakdown and interface management	10%
6	Operational continuity, temporary supply, cut-over, outage and rollback strategy	15%
7	FAT, SAT, commissioning and performance-verification strategy	10%
8	Project-specific risk register and mitigation measures	5%
9	Lifecycle support, training, O&M and handover strategy	5%

- g) Each criterion shall be assessed using the three-level scoring methodology defined in Table 5.
- h) The weighted score for each criterion shall be calculated as: $\text{Weight} \times \text{Score} \div 3$.

Table 5: Scoring of Items in technical proposal

Criteria	Description	Score
Acceptable	The submission fully addresses the criterion, is project-specific, technically coherent, supported by appropriate evidence, and identifies the relevant assumptions, interfaces and deliverables.	3
Partially Acceptable	The submission addresses the criterion only in part, contains material gaps, qualifications or weak evidence, or requires clarification to confirm the proposed approach.	1
Deficient	The submission does not adequately address the criterion, is generic or unsupported, contains a material technical deficiency, or presents an approach that is unsuitable for the Project.	0

- i) Where the evaluation team assigns a score of 1 or 0, the evaluator shall record the material gap, deficiency, qualification or unsupported claim that informed the score.

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- j) Clarification may be requested only to verify or explain information submitted by tender closing and shall not permit the Tenderer to materially improve the offer.
- k) The total Technical Proposal score is the sum of the weighted scores for all nine criteria. The minimum pass threshold is 80%.
- l) A critical safety deficiency, an unacceptable operational-continuity risk, or a material failure to meet the required Priority 1 functional outcome may result in technical disqualification irrespective of the numerical score.
- m) A proposal that merely repeats the URS, relies on generic marketing information, or fails to explain how the proposed solution will satisfy the project-specific requirements may be scored as partially compliant or non-compliant, as applicable.

3.3.3 Deemed Offer Risk Evaluation

- a) The Deemed Offer Risk Evaluation determines the overall technical and delivery risk associated with the tendered offer and the likelihood that the Tenderer will successfully design, supply, install, test, commission, hand over and support the required Priority 1 standby power systems.
- b) The minimum pass threshold is 80% and this stage contributes 15% to the final technical score.
- c) The Technical Proposal shall serve as a primary source of evidence for the Deemed Offer Risk Evaluation. The Technical Evaluation Team shall utilise the Technical Proposal, together with supporting returnables, reference checks, OEM submissions, EPC capability verification activities, tender clarifications and submitted evidence, to determine the residual risk associated with the offered solution.
- d) The absence of sufficient evidence within the Technical Proposal to demonstrate capability, mitigations or compliance shall constitute a risk indicator and may result in an Acceptable Risk or High Risk rating, depending on the materiality of the identified deficiency.
- e) The Technical Proposal shall therefore not only be evaluated for technical merit but shall also provide the principal supporting evidence upon which the Deemed Offer Risk Evaluation is based.
- f) The risk assessment shall be informed by the complete technical offer, including the Technical Schedule A&B, Technical Proposal, declared deviations, key personnel submission, OEM support and authorisation pack, comparable-project evidence, clarifications, reference checks, desktop EPC capability assessment, and any factory, workshop or reference-site verification undertaken by Eskom.
- g) Eskom may verify any claim during desktop evaluation, clarification, factory or workshop visits, interviews with proposed personnel, or reference-site checks. Eskom's verified finding shall prevail where submitted information is inconsistent with the verification outcome.
- h) The Deemed Offer Risk Evaluation shall assess the weighted risk areas indicated in Table 6.

Table 6: Deemed Offer Risk Evaluation areas

Item	Risk Area	Scope of Assessment	Weight
1	Offered solution and compliance risk	Material non-compliances; recurring minor non-compliances; deviations; design complexity; technology maturity; system-integration risk; relevance of type-test	30%

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Item	Risk Area	Scope of Assessment	Weight
		evidence; and ability to achieve the required functional outcome.	
2	EPC engineering and project-delivery capability risk	Design and engineering-study capability; key personnel; programme realism; resource capacity; interface management; installation and commissioning capability; temporary-power and live-site cut-over capability; quality controls; and dependence on subcontractors.	30%
3	Operational-continuity and commissioning risk	Risks to NMC, SCADA and IT Data Centre continuity; outage and rollback arrangements; integrated testing; battery-autonomy verification; protection performance; failure recovery; and performance verification.	20%
4	Lifecycle and product-support risk	OEM commitment; local support; spares; warranty administration; obsolescence; firmware and configuration tools; response times; training; O&M arrangements; and long-term availability of competent resources.	20%

- i) Each criterion shall be assessed using the three-level scoring methodology defined in Table 7.
- j) The weighted score for each criterion shall be calculated as: $\text{Weight} \times \text{Score} \div 3$.

Table 7: Scoring of Items in Deemed Offer Risk Evaluation

Risk Rating	Evidence Threshold	Score
Low	All material evidence applicable to the risk area is submitted, internally consistent and verified. No critical evidence is missing and no adverse verification finding remains unresolved.	3
Acceptable	Sufficient evidence is available to establish basic capability, but one or more material uncertainties, limitations or dependencies remain. No mandatory returnable may be absent and no High-Risk trigger may apply.	1
High	Critical evidence is absent, inadequate, contradictory, unverifiable or adversely verified; or the evidence demonstrates a material inability to meet the requirement.	0

- k) Any critical safety deficiency, material failure to achieve the required Priority 1 functional outcome, unmitigated single point of failure, unacceptable operational-continuity risk, or material inability to execute or support the Works may result in a High Risk rating or technical disqualification irrespective of the calculated score.
- l) Clarifications may verify or explain information submitted by tender closing but shall not permit the Tenderer to materially improve the offer. All evidence, findings, scores, moderation outcomes and risk narratives shall be retained as part of the technical evaluation record.
- m) Purpose and Status of Factory and Reference-Site Verification Activities
- 1) Eskom reserves the right to conduct desktop capability assessments, factory or workshop visits, interviews with proposed key personnel, OEM verification, and visits to reference sites during the technical evaluation. These activities are verification measures and do not constitute a separately weighted evaluation stage.
 - 2) The Verification Checklists as per Appendix A shall be used for this purpose.

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- 3) The purpose of each verification activity is to confirm the accuracy, completeness and credibility of information submitted in the Technical Schedule A&B, Technical Proposal, EPC Capability Self-Assessment, key-personnel submission, OEM support and authorisation pack, and portfolio of comparable projects.
 - 4) Findings shall be used as evidence in the Deemed Offer Risk Evaluation, particularly the Offered-Solution and Compliance Risk, EPC Engineering and Project-Delivery Capability Risk, Operational-Continuity and Commissioning Risk, and Lifecycle and Product-Support Risk categories.
 - 5) The decision to undertake a visit, the sites selected, the scope of verification and the number of Tenderers visited shall be determined by Eskom, subject to the applicable procurement procedure and consistent treatment of similarly situated Tenderers. A visit shall not be used to permit a Tenderer to improve or materially change the tendered offer after tender closing.
- n) Tenderer Arrangements and Evidence
- 1) The Tenderer shall facilitate reasonable access to the proposed local facilities, relevant OEM facilities and nominated reference sites, subject to security, safety and operational restrictions.
 - 2) The Tenderer shall make available the personnel, equipment, records, procedures and demonstrations identified in the agreed verification agenda.
 - 3) Where access to a factory or reference site cannot reasonably be provided, the Tenderer shall submit a written explanation and alternative independently verifiable evidence. Eskom shall determine whether the alternative evidence provides equivalent assurance.
 - 4) The Tenderer remains responsible for the accuracy of all representations made by the Tenderer, OEMs, agents, subcontractors and reference-site representatives.
- o) Verification Records and Evaluation Treatment
- 1) The Technical Evaluation Team shall use an approved checklist and record the evidence observed, persons interviewed, documents sampled, demonstrations witnessed, discrepancies identified, requested follow-up evidence and resulting risk input.
 - 2) Visit findings shall be recorded as Verified, Partially Verified, Not Verified, Contradicted, or Not Applicable. Not Applicable shall require an evaluator justification.
 - 3) A positive visit finding confirms submitted evidence but does not create compliance where the tendered offer is otherwise non-compliant.
 - 4) A discrepancy shall be assessed according to its materiality. A minor administrative discrepancy may require clarification. A material technical or capability discrepancy shall increase the relevant risk rating. A false, misleading or materially contradictory representation may result in a High Risk rating or technical disqualification in accordance with the procurement procedure.
 - 5) Scores, deliberations and preliminary conclusions shall not be disclosed to the Tenderer during a visit. Evaluators shall not provide design advice, approve proposed changes or negotiate the tendered offer during verification.

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4. Tender Returnables

4.1 General

- a) The following constitute the principal mandatory technical returnables:
 - 1) completed Technical Schedule A&B;
 - 2) project-specific Technical Proposal;
 - 3) completed and signed deviation register;
 - 4) key personnel submission, including the project organogram, CVs, professional registrations and applicable certifications;
 - 5) OEM support and authorisation pack for the major offered equipment; and
 - 6) portfolio of comparable projects and contactable references.
- b) Fully completed Technical Schedules (duly signed, where applicable), and supporting documents (evidence) shall be submitted at tender closing date following the applicable Eskom tender submission process.
- c) The supporting documents may be Datasheets, Technical Drawings, Brochures, Technical Manuals, Type Test Certificates, Test reports, short videos, project specific site layout drawings, design calculations, etc.
- d) Tenderers shall as minimum provide type test certificates and reports of offered equipment as evidence of compliance with the specified SABS, IEC, UL and NFPA standards, where applicable. Alternative type test certifications will only be regarded as additional, complementary information over and above the minimum requirements.
- e) It is important to note the following:
 - 1) only type test certificates and test reports from accredited, independent test laboratories shall be accepted.
 - 2) the make, type and model numbers of the offered equipment shall correspond with the corresponding detail on the type test document/s.
- f) Eskom reserves the right to consider/reject any other documents submitted for the evaluation in line with the application evaluation process.

4.2 Consistency and Order of Precedence

- a) The Technical Schedule A&B and Technical Proposal shall collectively form the Tenderer's technical offer and shall be fully aligned.
- b) All deviations shall be declared in the approved deviation register and cross-referenced from the affected documents.
- c) Contradictions, omissions or unreferenced qualifications between technical returnables shall be evaluated in accordance with the applicable procurement procedure.
- d) For technical evaluation purposes, an explicit declared deviation takes precedence over an unqualified statement of compliance.
- e) Where no deviation is declared, the Tenderer shall be deemed to have offered full compliance with the applicable requirement, subject to verification of the supporting evidence.

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4.3 Type Testing

- a) All offered equipment shall be type tested and comply with the relevant type tests as per Eskom standard 240-53114248, Thyristor and switch mode chargers, AC/DC to DC/AC converters and inverter/uninterruptible power supplies.
- b) The type test reports and certificates of the offered equipment shall be submitted as part of the tender submission.
- c) The brand and model numbers of the offered equipment shall be clearly identifiable on the submitted type test documents.

4.4 OEM Agent Agreement requirements

- a) Eskom requires the following detail pertaining to the OEM's and the respective local agent agreement:
 - 1) indicating the OEM certified required training, and commitment to provide after sales support.
 - 2) The OEM shall have a local agent in South Africa.
- b) The EPC contractor / tenderer shall provide a formal duly signed statement (on a company letterhead), indicating the contact details (inclusive of their respective scopes) of all the OEMs, sub-contractors, consultants, of which the appendices shall comprise duly signed letterheads by an authorised company representative, confirming:
 - 1) In the case of local OEM agents:
 - i) that they are authorized or accredited to perform integration, installation, testing, commissioning, operating and maintenance, modification, and providing accredited operating and maintenance training to the end user.
 - ii) the offered warranties and guarantees to the end user shall be honoured by the OEM.
 - 2) The names of the accredited people (of the local agent) that will be fulfilling the functions of Customer-Employer relationship management (e.g. key account executive), detailed engineering design, quality control and technical support. Their role-appropriate qualifications, experience shall be clearly highlighted in the applicable sections of their CVs.

5. Acceptance

This document has been seen and accepted by:

Note: Initials not acceptable

Full Name and Surname	Designation
Rudi Jacobs	Manager: GOU NED
Thomas Jacobs	Chief Engineer: Technology & Engineering
Kith Maitisa	Middle Manager: Real Estate

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6. Revisions

Date	Rev.	Compiler	Remarks
September 2026	1	Fhatuwani Thahale	Original issue.

7. Development Team

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

Thomas Jacobs and Fhatuwani Thahale

8. Acknowledgements

None

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Appendix A – Deemed Offer Risk Evaluation Verification Checklists

The EPC Verification Checklists is a mandatory supporting document and a primary input into the Deemed Offer Risk Evaluation. The checklist is not separately weighted. It is intended to establish and verify the Tenderer's engineering, procurement, integration, installation, testing, commissioning, quality and lifecycle-support capability.

Familiarity with the technical requirements of the referenced documents is assumed, detailed technical requirements are not interrogated here.

Where any activities are contracted out and not handled in-house the contractors are to be evaluated and approved as well by the TET. These contractors will then also be linked to the contract if successful with the tender and as such cannot be changed on an ad hoc basis with prior consultation with Eskom.

The Eskom Technical Evaluation Team will verify applicable items and record findings for use in the Deemed Offer Risk Evaluation.

CONTROLLED DISCLOSURE

FACTORY / WORKSHOP VERIFICATION CHECKLIST

Simmerpan NMC and Dx IT Data Centre Standby Power Systems Project

Project / enquiry reference	_____	Checklist reference / revision	_____
Tenderer / contractor	_____	Tender number	_____
OEM / manufacturer	_____	Facility type	☐ Factory ☐ Workshop ☐ Integration Facility ☐ Other
Facility name	_____	Physical address	_____
Offered system / equipment	_____	Applicable tender section	_____
Visit date	___ / ___ / ____	Start / finish time	_____ / _____
Lead evaluator	_____	Access / safety constraints	_____
Tenderer representative	_____	Position / contact details	_____
OEM / facility representative	_____	Position / contact details	_____

Finding codes: V = Verified | PV = Partially Verified | NV = Not Verified | C = Contradicted | NA = Not Applicable. NA requires a recorded justification.

CONTROLLED DISCLOSURE

1. Factory / Workshop Verification Checklist

Ref.	Verification Area	Verification Requirement	Minimum Objective Evidence	Risk Area Input	Finding Code	Evaluator Comments / Risk Input
F1	Tendered entity and facility	Facility identity, ownership/lease, scope and relationship to Tenderer/OEM match the submission.	Company records; facility address; ownership/lease; OEM/agent agreement; organogram.	EPC delivery; lifecycle		
F2	Named personnel availability	Proposed engineering, project, quality, installation, testing and commissioning personnel are available and understand assigned roles.	Interviews; CVs; ECSA/OEM credentials; resource schedule.	EPC delivery; commissioning		
F3	Engineering capability	Capability exists for SLDs, protection, cables, earthing, batteries, UPS-generator, HVAC and reliability studies.	Comparable design pack; calculations; software access; review/checking records.	Offered solution; EPC delivery		
F4	Mission-critical design assurance	Team demonstrates 2N topology, single-point-of-failure, maintainability and live-site cut-over competence.	Comparable design; FMEA; operating-state diagrams; cut-over/rollback records.	Offered solution; continuity		

CONTROLLED DISCLOSURE

Ref.	Verification Area	Verification Requirement	Minimum Objective Evidence	Risk Area Input	Finding Code	Evaluator Comments / Risk Input
F5	Quality management	Controlled processes exist for design review, procurement, inspection, NCRs, calibration, testing and document control.	QMS certificate; procedures; sampled NCR, ITP, calibration and traceability records.	EPC delivery; offered solution		
F6	Manufacturing / integration facilities	Facilities are adequate for offered assembly, integration, safe handling, preservation and segregation.	Facility tour; layout; equipment; WIP records; lifting/safety arrangements.	EPC delivery		
F7	FAT capability	Facilities can safely execute relevant UPS, battery, ATS/ASTS, control, alarm, communications and integrated FAT activities.	Test bay; instruments; load banks/simulators; safety controls; sample FAT report.	Offered solution; commissioning		
F8	Offered-equipment traceability	Offered makes, models and configurations can be traced to production/test equipment and applicable type-test evidence.	Nameplates; BOM; certificates; test reports; configuration/change records.	Offered solution		
F9	Installation capability	Capability exists for cables, DBs, ATS/ASTS, generators, UPS, LFP batteries, temporary power and safe cut-over.	Method statements; tools; permits; training; completed-project records.	EPC delivery; continuity		

CONTROLLED DISCLOSURE

Ref.	Verification Area	Verification Requirement	Minimum Objective Evidence	Risk Area Input	Finding Code	Evaluator Comments / Risk Input
F10	Commissioning capability	Team can perform SAT, integrated testing, failure simulations, protection tests, battery autonomy and controlled restoration.	Procedures; cause-and-effect matrix; test equipment; SAT reports; interviews.	Continuity; EPC delivery		
F11	Cybersecurity configuration / control	Controls exist for accounts, firmware, backups, remote support and transfer of credentials/tools.	Procedures; backup samples; remote-access controls; firmware and licence records.	Offered solution; lifecycle		
F12	Diagnostic and repair support	Facility has or has committed access to diagnostic capability, repair processes, escalation and response.	Workshop/test equipment; trained staff; SLA; escalation and repair records.	Lifecycle support		
F13	Spares and logistics	Critical-spares identification, stock/lead-time management, preservation, dangerous-goods handling and transport are credible.	Stock sample; spares schedule; lead-time; storage; preservation; transport records.	Lifecycle; EPC delivery		
F14	Obsolescence / lifecycle management	Processes exist for product changes, EOL notices, firmware, substitutions and long-term support.	Lifecycle policy; EOL notices; roadmap; notification/substitution records.	Lifecycle support		

CONTROLLED DISCLOSURE

Ref.	Verification Area	Verification Requirement	Minimum Objective Evidence	Risk Area Input	Finding Code	Evaluator Comments / Risk Input
F15	Claim / evidence consistency	Proposal and self-assessment statements are consistent with observations, interviews and sampled records.	Tender cross-check; discrepancy register; follow-up evidence requests.	All risk areas		

2. Verification Summary and Deemed Offer Risk Inputs

Risk Area	Weight	Positive Verified Findings	Gaps / Contradictions	Recommended Rating 3/1/0	Evaluator Rationale	Moderated Rating
Offered-solution and compliance risk	30%					
EPC engineering and project-delivery capability risk	30%					
Operational-continuity and commissioning risk	20%					
Lifecycle and product-support risk	20%					

Overall conclusion: ☐ Verified ☐ Partially verified / mitigation required ☐ Material capability not verified ☐ Contradiction identified ☐ Further verification required

Overall evaluator narrative and recommended risk impact:

CONTROLLED DISCLOSURE

Required conditions or follow-up verification:

3. Declaration and Sign-Off

The undersigned confirm that this checklist records the evidence observed and discussions held during the factory/workshop verification. Signatures acknowledge the accuracy of the visit record only and do not constitute approval of the tendered offer, acceptance of deviations, disclosure of scores or amendment of the tender.

Role	Full Name	Organisation	Signature	Date
Technical Evaluator				
Quality / Procurement Observer				
Tenderer Representative				
OEM / Facility Representative				

TET Chairperson / Moderator: Name: _____ Signature: _____ Date: ____ / ____ / ____

Controlled-record location: _____

CONTROLLED DISCLOSURE

REFERENCE-SITE VERIFICATION CHECKLIST

Simmerpan NMC and Dx IT Data Centre Standby Power Systems Project

Project / enquiry reference	_____	Checklist reference / revision	_____
Tenderer / contractor	_____	Tender number	_____
Reference client / organisation	_____	Facility type	☐ NMC ☐ Data Centre ☐ Control Centre ☐ Telecoms ☐ Other
Reference-site name	_____	Physical address	_____
Installed system / project	_____	Commissioning / completion date	___ / ___ / ___
Visit date	___ / ___ / ___	Start / finish time	___ / ___
Lead evaluator	_____	Access / operational constraints	_____
Client representative	_____	Position / contact details	_____
Tenderer representative	_____	Position / contact details	_____

Finding codes: V = Verified | PV = Partially Verified | NV = Not Verified | C = Contradicted | AVH = Adverse Verified History | NA = Not Applicable. NA requires a recorded justification.

Completion rule: Record the exact evidence inspected, the client response, the evaluator finding and any resulting risk input. Do not record unverified assumptions as facts. Visit findings support the Deemed Offer Risk Evaluation and are not separately scored.

CONTROLLED DISCLOSURE

1. Reference-Site Verification Checklist

Ref.	Verification Area	Verification Requirement	Minimum Objective Evidence	Risk Area Input	Finding Code	Evaluator Comments / Risk Input
R1	Reference authenticity	Client, facility, scope, dates and Tenderer role agree with the tender submission.	Contract/PO/completion evidence; client confirmation; project records.	EPC delivery		
R2	Reference comparability	Installation is comparable in criticality, architecture, ratings, technology and live-site constraints.	SLD; equipment schedule; facility description; ratings; Tenderer scope.	Offered solution; EPC delivery		
R3	Design performance	Installed solution achieved the specified functional outcome and design intent.	Acceptance records; performance results; client confirmation.	Offered solution		
R4	Reliability and failure history	Material failures, recurring defects and availability impacts are disclosed and understood.	Failure/alarm history; incident reports; maintenance and defect logs.	Offered solution; lifecycle		
R5	Redundancy and maintainability	Installed configuration supports claimed redundancy and planned maintenance arrangements.	Observed configuration; maintenance switching records; interview.	Offered solution; continuity		

CONTROLLED DISCLOSURE

Ref.	Verification Area	Verification Requirement	Minimum Objective Evidence	Risk Area Input	Finding Code	Evaluator Comments / Risk Input
R6	Programme and delivery	Tenderer delivered the claimed scope with acceptable programme control and issue resolution.	Baseline/completion dates; close-out records; client interview.	EPC delivery		
R7	Continuity during implementation	Temporary power, outages, cut-over, rollback and restoration were managed acceptably.	Outage/cut-over records; incidents; temporary-power records.	Operational continuity		
R8	FAT, SAT and commissioning	Testing identified defects, validated interfaces and achieved controlled handover.	FAT/SAT reports; commissioning dossier; punch-list close-out.	Continuity; EPC delivery		
R9	Training and handover	Operators and maintainers received adequate training, manuals, settings, tools and as-builts.	Training records; manuals; as-builts; client interview.	Lifecycle support		
R10	Warranty and defect response	Warranty obligations were honoured and defects were closed within acceptable arrangements.	Warranty/defect logs; response and closure records.	Lifecycle support		
R11	Local support effectiveness	Support channels, response, technical competence and escalation function in practice.	Service-call history; SLA; escalation records; interview.	Lifecycle support		

CONTROLLED DISCLOSURE

Ref.	Verification Area	Verification Requirement	Minimum Objective Evidence	Risk Area Input	Finding Code	Evaluator Comments / Risk Input
R12	Spares, firmware and obsolescence	Required spares, firmware, replacements and product-change support remain available.	Spares/lead-time records; EOL notices; replacement history.	Lifecycle support		
R13	Client satisfaction / adverse findings	Material strengths, limitations, disputes, outages, unresolved defects and lessons are recorded.	Structured interview; issue registers; evaluator notes.	All risk areas		
R14	Tenderer role verification	Tenderer performed the claimed engineering, integration, installation and commissioning role.	Client confirmation; scope documents; named team/subcontract records.	EPC delivery		

2. Structured Client Interview

Ref.	Client Interview Question	Client Response / Evidence	Evaluator Note / Risk Input
C1	Did the Tenderer perform the engineering, integration, installation and commissioning scope claimed?		
C2	Did the system achieve the required functionality, redundancy, autonomy and operational outcome?		
C3	Were planned outages, temporary supplies and cut-over activities acceptably managed?		

CONTROLLED DISCLOSURE

Ref.	Client Interview Question	Client Response / Evidence	Evaluator Note / Risk Input
C4	Were there material safety events, operational interruptions, recurring failures or unresolved defects?		
C5	Was the programme achieved? If not, what were the principal causes and responsibilities?		
C6	Were FAT, SAT and integrated commissioning adequately planned, documented and completed?		
C7	Were training, manuals, as-builts, settings, software and handover records adequate?		
C8	Have warranty, technical-support and spares commitments been honoured?		
C9	What material strengths, weaknesses and lessons should Eskom consider?		
C10	Would the client appoint the Tenderer for comparable mission-critical work? Record the factual basis.		

CONTROLLED DISCLOSURE

3. Verification Summary and Deemed Offer Risk Inputs

Risk Area	Weight	Positive Verified Findings	Gaps / Contradictions / Adverse History	Recommended Rating 3/1/0	Evaluator Rationale	Moderated Rating
Offered-solution and compliance risk	30%					
EPC engineering and project-delivery capability risk	30%					
Operational-continuity and commissioning risk	20%					
Lifecycle and product-support risk	20%					

Overall conclusion: ☐ Verified ☐ Partially verified / mitigation required ☐ Material capability not verified ☐ Contradiction ☐ Adverse verified history ☐ Further verification required

Overall evaluator narrative and recommended risk impact:

Required conditions or follow-up verification:

4. Declaration and Sign-Off

The undersigned confirm that this checklist records the evidence observed and discussions held during the reference-site verification. The reference client representative confirms only that information attributed to the client representative is a fair record of the discussion. Signatures do not constitute approval of the tendered offer, acceptance of deviations, disclosure of scores, endorsement of the Tenderer or amendment of the tender.

CONTROLLED DISCLOSURE

**Technical Evaluation Criteria for Simmerpan NMC and IT Data Centre UPS and Generator
Systems Replacement**

Unique Identifier: **559-531039508**

Revision: **1**

Page: **31 of 31**

Role	Full Name	Organisation	Signature	Date
Technical Evaluator				
Quality / Procurement Observer				
Reference Client Representative				
Tenderer Representative				

TET Chairperson / Moderator: Name: _____ Signature: _____ Date: ____ / ____ / ____

Controlled-record location: _____

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