Part 3: Scope of Work

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C3.1: EMPLOYER'S WORKS INFORMATION

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1 Description of the Works

1.1 Executive overview

1. Acacia Power Station is a gas turbine power station located near Cape Town in the Western Cape. The station comprises three generating units and associated auxiliary plant housed within modular steel enclosures.
2. The Works comprise the refurbishment and corrosion protection of the Unit 1, Unit 2 and Unit 3 enclosures and associated structures, together with Fuel Storage Tanks A and B, as detailed in this Works Information.
3. The Works include, where applicable:
    - inspection and condition assessment of the areas identified in this Works Information;
    - localised repair or replacement of deteriorated steelwork and sheeting;
    - preparation of metallic surfaces;
    - application of the specified corrosion protection coating systems;
    - repair and application of waterproofing systems and joint seals;
    - removal and reinstatement of fixtures, doors, ducts, signage and other components where required to execute the Works;
    - inspection, testing and quality verification; and
    - reinstatement, cleaning and handover of the completed Works.
4. The extent of repair required is confirmed through the inspection and condition assessment process specified in this Works Information. Measurement and payment are in accordance with the Bill of Quantities and the conditions of contract.
5. The Works are predominantly carried out in situ. Components which cannot reasonably be repaired in situ may be removed and repaired within the designated Site working area or, where provided for in this Works Information, manufactured or repaired off Site.
6. The Works are carried out in phases and coordinated with the Employer's operational requirements. Generating units and plant not released for the Works remain operational unless otherwise instructed by the Project Manager.
7. The Contractor protects operating plant, equipment and infrastructure and executes the Works so as to minimise interference with the Employer's operations.

1.2 Employer’s objectives and purpose of the Works

1. The Employer’s objective is to maintain the operational readiness and asset integrity of Acacia Power Station by undertaking life-extension refurbishment of its ageing generator, turbine, and auxiliary enclosures. The enclosures form critical weatherproof and protective boundaries for high-value generation assets.
2. The project is intended to deliver the following key outcomes:
    - Restoration of protective enclosures to an acceptable structural and aesthetic condition, aligned with engineering and corrosion protection standards;
    - Prevent water ingress and corrosion to prevent future structural and performance issues.

- Improved maintainability, including access to components, safe working surfaces, and compliant signage reinstatement;
- Cost-effective life extension of existing infrastructure, with minimal to no maintenance required to maintain the corrosion protection system;
- Support for reliable on-demand generation dispatch.

1.3 Interpretation and terminology

This clause supplements the definitions provided in the NEC3 ECC Conditions of Contract. Words and abbreviations listed below apply only to this Work's Information and have the stated meanings wherever they appear, unless the context clearly indicates otherwise.

1.3.1 Interpretation of incorporated documentation

1.3.2 Defined Terms

The following abbreviations are used in this Works Information:

Term	Meaning within this Works Information
Acacia Power Station	Eskom Generation Peaking Division's gas-turbine facility, situated in Cape Town, Western Cape, forms the Site for the Works.
C5-M Environment	Very high corrosivity, marine atmosphere classification in accordance with ISO 12944-2.
Coating System	The complete, fully compatible sequence of surface preparation, primer, intermediate, finish coats and associated sealants specified for protective treatment of steelwork.
Data Certificate Pack	The compilation of all quality documents (QCPs, ITPs, DFT and environmental logs, NDT reports, warranties, as-built drawings and maintenance manuals) required to demonstrate that the Works meet the fitness-for-purpose
Defects Correction Period	The period stated in Contract Data during which the *Contractor* rectifies Defects after Completion includes any manufacturer or installer warranty periods that extend beyond the NEC core period.
High-Pressure Water Jetting (HPWJ)	Surface-preparation method utilising water at a minimum working pressure of 500 bar immediately upstream of the nozzle.
Principal *Contractor*	The *Contractor* appointed in writing by the *Employer* under the Occupational Health and Safety Act (Construction Regulations) to execute and co-ordinate construction activities on the Site.
Stopaq®	Visco-elastic corrosion-preventive wrap system (or proven equivalent accepted by the *Project Manager*) used for joint sealing and waterproofing interfaces, as specified in the Technical Specification.

1.3.3 Abbreviations

These definitions and abbreviations are intended solely to improve clarity in this Works Information and must not modify, supersede or conflict with any definition in the NEC3 ECC *conditions of contract.* Where a conflict appears to exist, the definition in the NEC3 ECC must prevail.

Abbreviation	Full wording
AS-BUILT	Record drawings and documents reflecting the Works as actually constructed or installed
AFC	Approved For Construction
C&I	Control and Instrumentation
DFT	Dry Film Thickness (µm)
GT	Gas Turbine
HPWJ	High-Pressure Water Jetting
ISO	International Organization for Standardization
ITP	Inspection and Test Plan
JSEA	Job Safety and Environmental Analysis
MCC	Motor Control Centre
MEWP	Mobile Elevating Work Platform
NDT	Non-Destructive Testing
OHS Act	Occupational Health and Safety Act, Act 85 of 1993 (South Africa)
PA	Protective Appliance (safety equipment)
PM	*Project Manager* (as defined in the NEC3 ECC)
QA/QC	Quality Assurance / Quality Control
QCP	Quality Control Plan
RA	Risk Assessment
RFQ	Request for Quotation
SHEQ	Safety, Health, Environment and Quality
WCC	Working-at-Heights Competency Certificate

2 Management and start up.

2.1 Management meetings

1. To support the effective administration of the contract, the Contractor attends and participates in management meetings convened by the Project Manager.
2. These meetings are intended to:
    - Monitor and coordinate progress,
    - Address risks and safety issues,
    - Review quality assurance and testing milestones,
    - Confirm contract deliverables and communication obligations.
3. Meeting minutes or registers are prepared by the person convening the meeting and circulated within five (5) working days. These will not substitute for formal communications issued in accordance with Clause 13 of the Contract.
4. Meetings may be held on-site or via Microsoft Teams, depending on the nature of the discussion and the Parties' availability.
5. The Project Manager may convene additional meetings as required to address technical, programme-related, or commercial issues.

2.1.1 General Execution Meetings

2.1.1.1 Project kick-off meeting

A project kick-off meeting is convened and chaired by the *Project Manager* before Works commences:

Interval	Location	Attendance by:
Once-off meeting	MSTEAMS or on-site	*Project Manager*, *Contractor*, Project Engineer, Power Station Manager and Others as required

2.1.1.2 Implementation meetings for specific progress/QC, and feedback

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk Register and Compensation Events	As required	MSTEAMS or on-site	*Project Manager*, *Contractor*, Project Co-Ordinator, Quantity Surveyor, Project Engineer and Others as required
Overall contract progress and feedback	Minimum Bi-weekly or as required by the *Project Manager*.	MSTEAMS or on-site	*Project Manager*, *Contractor*, Project Co-Ordinator, Project Engineer and Others as required
On-site integration meetings	Daily	on-site	*Contractor*, *Project Manager*, Project Co-Ordinator and relevant Engineer and Others as required

2.1.3 Meetings of a specialist nature

1. The Project Manager or the Contractor may convene specialist meetings to address:
    a. Design review and clarification (see Section 3.3), Procedure for submission and acceptance of the Contractor's design.
    b. Interface management with Third Parties or stakeholders,
    c. Quality Control Plan (QCP) or Inspection and Test Plan (ITP) reviews,
    d. Safety audits and technical compliance discussions.
2. The attendance, frequency, and location of such meetings are to be fit for purpose and recorded accordingly.
3. Records of specialist meetings must be submitted to the Project Manager within five (5) working days after the meeting.

2.1.4 Post-implementation meeting for project feedback and review

1. The post-implementation meeting is held between the Employer, Contractor and Others as required to report on implementation issues and reviews, for project close-out, if needed:

Interval	Location	Attendance by:
Once-off	MSTEAMS or on-site	*Project Manager*, *Contractor*, Project Engineer, Power Station Manager and Others as required

2.2 Documentation control

1. The Contractor establishes and maintains a document management system for all project documentation throughout the contract. This document management system applies to all documents related to correspondence, design, procurement, manufacturing, construction, commissioning, handover, and as-builts.
2. The documentation control system provides complete traceability, version control, transmittal records, and clear identification of document status (e.g. "Issued for Review", "Approved for Construction", "As-Built").
3. The *Contractor* complies with the following *Employer* Document control standards:
    a. 240-86973501: Engineering Drawing Standard – Common Requirements,
    b. 240-54179170: Classification and Designation of Technical Documentation,
    c. 32-644: Documentation Management Standard.
4. All documentation must:
    a. Be submitted in South African English and use SI units.
    b. Be legible, professionally prepared, and signed by authorised personnel,
    c. Be submitted in editable electronic formats (no password protection or write protection) unless otherwise agreed,
    d. Be issued with a formal transmittal form, uniquely numbered, indicating:
        i. Document title and number,
        ii. Revision number and status,
        iii. Date of issue,
        iv. Purpose of issue (e.g. "For Review", "For Acceptance").

5. Final “As-Built” submissions must include:
    a. One complete hardcopy drawing set with signed title blocks,
    b. Editable electronic copies of all documentation,
    c. Operating and Maintenance (O&M) manuals, maintenance schedules, and configuration data.
6. All formal communications, including document submissions and technical queries, must:
    a. Be issued as signed letters or forms on the *Contractor*’s letterhead,
    b. Be submitted as PDFs attached to an email (not in the email body),
    c. Be acknowledged by the recipient, with a record of receipt returned to the sender,
    d. Reference the applicable ECC clause (if contractual), the Contract number, subject, and any relevant cross-references.
7. All document deliverables must be routed to the Project Manager and aligned with the design review and acceptance process outlined in Section 3.3 Procedure for submission and acceptance of the Contractor’s design, of this Works Information.

2.3 Communication Requirements

All communication from the *Contractor* must be addressed to the *Project Manager*, as specified in the ECC contract. All communication must refer to:

1. The Contract number that is issued by the Employer (typically a 46000xxxxx number),
2. The title of the Contract,
3. Any previous references relating to the specific communiqué (i.e., a response to a Project Manager’s communication),
4. The specific ECC clause under which the communication is issued, whether a reply is required, and a unique letter reference number
5. All document deliverables transmitted to the Project Manager for review, acceptance, record, or information are transmitted under formal communication with an associated document transmittal cover document.
6. The title of each letter summarises the purpose of the letter, and each notification deals with only one specific issue at a time.
7. In the case where letters are submitted electronically by means of email, the title of the letter must be reflected in the subject line, and only one letter is submitted per email.

2.4 Health and safety risk management

1. The Contractor complies with the health and safety requirements contained in the Employer's SHE Specification and the approved safety file. Eskom reserves the right to review the OHS Requirements to address operational risks, and the Contractor must comply with the latest OHS Requirements as amended, at no additional cost.
2. Contractor and Employer representatives must sign the 37(2) agreements.
3. The Contractor OHS professional must conduct internal audits at planned intervals to monitor compliance with the Contractual health and safety requirements.
4. The Employer or his representative will conduct inspections at planned intervals to monitor compliance with the Contractual health, safety and legal requirements.

5. The Contractor may be selected during internal and/or external Power Station audits to verify compliance with legal and contractual OHS requirements. The Project Manager will communicate this at relevant periods, and the Contractor will be available for this audit.
6. In addition to the requirements of the applicable laws governing occupational health and safety, the Power Station OHS requirements particular to the service and the Affected Property for this contract must be adhered to for the duration of the Contract.
7. The minimum requirements for the Contractor to gain access to Peaking Generation Power Stations include, but are not limited to:
    a. A valid medical fitness certificate
    b. Police clearance from SAPS or an accredited supplier/service provider linked to the SAPS AFIS system, not older than thirty (30) calendar days.
    c. Identification document (RSA ID or equivalent)
    d. National Driver's Licence (applicable to drivers)
    e. Adherence to the Eskom Life-saving rules.
    f. Applicable risk-based PPE
    g. A Valid letter of good standing at all times (COIDA or equivalent). Access to the site to perform the Works will be denied should the letter of good standing not be valid.
    h. The Contractor/supplier/consultant who is working alone and not eligible to register with the compensation fund must provide Eskom with the member benefit statement of the insurance cover, which includes life and disability cover, to the minimum fund of R500,000.

Note: Induction will only be done after the above documents have been submitted and accepted by the *Employer.*

2.4.1 Key Performance Indicators

The *Contractor* must monitor, manage, and report on the following Key Performance Indicators (KPIs) related to health and safety performance for the duration of the Contract. These indicators will be used to assess compliance with the *Employer*'s OHS Specification, legal obligations, and safe work practices.

The *Contractor* must:

1. Maintain a Health and Safety file and ensure compliance with the health and safety plan, Eskom OHS specification, and applicable legislation as amended.
2. Always maintain good housekeeping where the task is being executed and/or within the area of responsibility.
3. Implement and monitor near-miss reporting strategy/programme (reporting of near misses).
4. Develop and comply with Behavioural Safety Observation (BSO) and Planned Job Observation programmes (PJO).
5. Maintain Zero Fatalities for the duration of the Contract.
6. At any given point, the OHS performance must be within the lost time injury (LTI) tolerance level as amended.
7. All incidents must be reported immediately or before the end of the shift in which the incident occurred.

8. All incident investigations must be completed within seven (7) working days of the occurrence of an incident.
9. Incident investigation recommendations will be closed within the recommended time frame recorded in the Incident investigation report.
10. Close audit findings as per the Employer's procedure or audit report recommended time frames.
11. Close Non-conformance as per the recommended time frames.

Note: The KPIs listed above will be subject to regular monitoring through audits and site inspections conducted by the *Employer*.

2.4.2 Contract Completion and sign-off

Upon Completion of the Works, the Parties will conduct a final meeting to identify any outstanding Defects or information before the Contract is closed out.

The *Contractor* ensures the following requirements are met before Completion of the Works:

1. Close all incidents and audit findings.
2. Clean the respective site establishment areas and ensure good housekeeping where the Contractor was working.
3. The Contractor must submit safety statistics and a safety file to the Employer's BU Safety department for closeout and filing.
4. Completion of a closeout report (as per 32-726) to close the Contractual work

2.5 Environmental constraints and management

The *Contractor* complies with all the National and Local legislation requirements as well as the *Employer's* procedures and policies as stated in this Works Information.

1. The Contractor complies with:
    a. All applicable national, provincial, and municipal environmental legislation and by-laws, including but not limited to:
        - National Environmental Management Act (Act 107 of 1998)
        - National Water Act (Act 36 of 1998)
        - National Environmental Management Waste Act (Act 59 of 2008)
        - Applicable Eskom environmental procedures and standards
    b. The requirements of the site's ISO 14001 Environmental Management System, where applicable.
2. The *Contractor* must:
    a. Prepare and implement a site-specific Environmental Method Statement, including but not limited to:
        - Identification of potential environmental impacts of the Works
        - Management of waste streams
        - Hazardous materials handling and spill prevention
        - Protection of flora, fauna, and cultural heritage sites
        - Noise, dust, and emissions control

- Stormwater and wastewater management

b. Submit this Environmental Method Statement to the Employer for acceptance prior to commencement of any Works on site.

c. Provide Safety Data Sheets for all hazardous substances brought onto the site.

d. Immediately report any environmental incidents or potential non-compliances to the Employer.

e. Maintain proper temporary storage and clearly demarcated areas for all waste and hazardous materials, in line with best practice and legal requirements.

3. The Contractor's activities must be planned and executed to minimise the risk of harm to the environment and must reflect a principle of zero harm to the environment, in line with Eskom's environmental policy.

4. The Contractor's compliance with environmental requirements will be monitored through audits and inspections conducted by the Employer.

5. The Contractor is fully responsible for the safe collection, handling, storage, transportation, and legal disposal of all waste generated from the Works.

This includes:

a. General waste, construction debris, surplus materials, and hazardous waste,

b. Segregation and labelling of waste streams where required by regulation or Employer procedure,

c. Maintaining clean and organised work areas to prevent environmental contamination or safety risks,

d. Records and disposal certificates for all waste removed off-site must be kept and made available to the Employer upon request.

6. Disposal must only be to licensed and approved facilities in accordance with the National Environmental Management Waste Act and any other applicable legislation. Under no circumstances may waste be buried, burned, or disposed of on the Employer's premises.

2.6 Quality assurance requirements

1. The Contractor must develop, implement, and maintain a Quality Management System (QMS) for the duration of the Works. Where the Contractor operates an ISO 9001:2015-certified system, the level of self-certification for materials and components will be agreed with the Project Manager prior to the commencement of any Works.

2. If no certified QMS exists, the Contractor must:

3. Establish a formal quality management plan specific to the Works.

a. Perform all required inspections and tests,

b. Maintain complete records of quality control activities, and

c. Submit all documentation for acceptance by the Project Manager.

4. The Contractor must submit a complete and project-specific Quality Control Plan (QCP) aligned with the Works in the Accepted Programme and Method Statement. The QCP must be submitted at least ten (10) working days before the planned start of any Works or inspections and must include, at a minimum:

a. Defined responsibilities and quality objectives,

b. Document and record control procedures,

c. Hold points, witness points, and inspection points,
d. Non-conformance control procedures,
e. Acceptance criteria,
f. Final documentation and data book handover requirements.

5. The QCP must identify and describe all key activities in logical execution order, cross-referenced to the relevant specifications and work packages. Each activity must include:
6. Provisions for signature by the Contractor upon Completion, and
7. Signature by the Employer confirming acceptance.
8. The Contractor will ensure that all Witness and Hold Points are agreed in advance with the Project Manager and are included in the approved QCP. The Contractor must not proceed past any Hold Point without written instruction from the Project Manager.
9. All QCP submissions must be accompanied by supporting documentation, including:
   a. Fitment, application, and installation procedures,
   b. Inspection and test procedures,
   c. Calibration certificates for monitoring and measuring equipment,
   d. Details of qualified personnel allocated to QA/QC activities.
10. The Contractor will provide competent QA personnel and suitable equipment necessary to implement and verify the Works against the agreed standards and specifications.
11. The following minimum quality records will be generated and retained on Site:
    a. Material batch and delivery records,
    b. Signed Product Data Sheets (e.g., coating systems, sealants),
    c. Surface preparation records and inspection reports,
    d. Climatic condition records for each work shift during coating application,
    e. Application logs detailing date, time, and method of each coating layer, including repair coats,
    f. Dry Film Thickness (DFT) measurements per coat and location,
    g. NDT reports and data sheets for all site or off-site welding,
    h. Technical records for all consumables and materials used in the Works.
12. The QCP must cover both on-site and off-site Works, including but not limited to:
    a. Surface preparation and coating application,
    b. Steelwork repair and fabrication,
    c. Quality documentation verification,
    d. Storage and handling of materials.
13. The Contractor must programme all quality inspections and testing in coordination with the Employer. Inspection access must be granted at reasonable notice to allow the Employer's review of Works at all critical stages.
14. The Contractor is responsible for the preparation and submission of complete Quality Data Packs prior to Completion. These will include all required records, certificates, reports, and as-built drawings, and must be accepted by the Project Manager before the Completion Certificate is issued.

15. The Contractor must ensure all monitoring and measuring equipment is calibrated and verified for serviceability before use. Calibration certificates must be kept on-site and made available for inspection.
16. The Employer reserves the right to carry out audits and surveillance inspections at any time. The Contractor must grant unrestricted access to all documentation, QA/QC activities, trials, and test results as requested.

2.7 Programming constraints

1. The Contractor must develop, maintain, and update a programme for the Works. The programme must reflect the full scope of activities required to complete the enclosure refurbishment Works at Acacia Power Station, taking into account operational constraints, outage coordination, and sequencing.
2. The programme is prepared using:
    a. Microsoft Project (.mpp format) and must be submitted in native editable format and PDF.
3. The programme must:
    a. Be detailed, logically linked, and reflect all activities and dependencies.
    b. Include start and Completion Dates for the Works.
    c. Identify access dates and sequencing of work on each enclosure (Generator, Turbine, and Auxiliary).
    d. Indicate the timeframes for Employer reviews, inspections, and hold/witness points.
    e. Include allowance for Employer-required isolations, permits, and interface meetings.
4. The Contractor programmes the Works in accordance with the following constraints:
    a. Works will be sequenced to avoid disruption to generation or plant safety systems. Works in any live area must be pre-approved by the Employer and scheduled within permit windows.
    b. External Works, including coating and access activities, must consider wind loading, humidity, temperature, and curing times to meet specifications.
    c. Scaffolding, rope access, and temporary Works must be coordinated to maintain safety and limit access overlaps.
    d. Activities generating high-pressure wash effluent, paint waste, or debris must be coordinated with waste management operations and comply with environmental regulations.
    e. Only one enclosure may be under refurbishment at a time unless otherwise agreed in writing by the Project Manager.
5. The programme must also identify:
    a. Key milestones include mobilisation, start/finish of each enclosure, inspections, punch-list clearance, and handover.
    b. Critical path and available float.
    c. Time required for off-site preparation of materials and equipment.
    d. Coordination of access and close-out per area to support uninterrupted operations.
6. The Contractor submits the first programme for acceptance within the period stated in Contract Data.
7. The Contractor submits revised programmes at intervals no longer than the interval stated in Contract Data and otherwise as required by Clause 32 of the conditions of contract.
8. All programme submissions must clearly identify:

a. Changes made since the last submission.
b. Revised Completion Date and critical path impacts.
c. Status of Employer responsibilities and any constraints to access or progress.

9. No Works impacting safety systems, weatherproofing integrity, or live plant areas may be carried out unless:
   a. Reflected in the latest accepted programme, and
   b. Explicitly approved by the *Employer* under the site permit-to-work system.
10. Failure to maintain a realistic, accurate, and coordinated programme may result in delayed approvals, rejected submissions, or non-payment for uncoordinated work

2.8 Contractor's management, supervision and key people

1. The Contractor will provide a project-specific organogram showing names, roles, reporting lines, and communication for all personnel directly involved in the Works, including subcontractors. A revised organogram including contact details is submitted within five (5) working days of the Contract Date.
2. The Contractor ensures that all key people identified in the Contract Data or subsequently nominated hold relevant qualifications and experience appropriate to their role. Supporting documentation (e.g. CVs, trade certificates, proof of professional registration) is provided to the Project Manager or Others.
3. No replacement of key people may take place without the Project Manager's prior written approval. Any replacement must have equivalent or better competence and be subject to the same verification.
4. At all times, during working hours, a key person with delegated authority is present on the Site to:
   a. Instruct the cessation of unsafe or non-conforming work; and
   b. Commit the Contractor to immediate corrective action where required, at no cost to the Employer.
5. The working language of the Contract is English. All key people must be fluent in spoken and written English and able to conduct meetings, issue instructions, and generate reports without translation.
6. The Contractor ensures that key people attend all required progress, SHEQ, and commercial meetings, as well as any other coordination, planning or risk-review meetings requested by the Project Manager.
7. Failure to comply with this requirement may result in the Project Manager exercising the rights available under the conditions of contract in respect of the affected person

2.9 Invoicing and payment

1. Within one (1) week of receiving a Payment certificate from the Project Manager in terms of core clause 51.1, the Contractor submits a tax invoice to the Employer, showing the amount due for payment equal to that stated in the Project Manager's Payment Certificate.
2. The Project Manager should be copied on all electronic invoices emailed.
3. Failure to submit the invoice to the correct address could result in payment delays.
4. The Contractor's Tax Invoices comply with the requirements as stated in clause Z7 of the Contract Data
5. Invoices are submitted electronically to:
   - Local Eskom Invoices - invoiceseskomlocal@eskom.co.za
   - Foreign Eskom Invoices - invoiceseskomforeign@eskom.co.za

6. The following details are required when submitting invoices and additional data:
    c. The subject line of your email should only contain your vendor number.
    d. Each PDF invoice should be named with your invoice number only.
    e. All electronic invoices are sent in PDF format only.
    f. Attach the proof of delivery to your invoice.
    g. Where applicable, supporting documents are attached to the scanned PDF invoice as one attachment.
    h. A copy of the signed assessment certificate
    i. Cost Price Adjustment (CPA) calculation sheet
    j. Retention Certificate, which is a retention invoice.
    k. Any other appropriate documents, e.g.
        i. For shipping invoices, please ensure the following documents are attached.
        ii. Invoice (this should only reflect the shipping cost)
        iii. Commercial invoice
        iv. Delivery note
        v. Your shipping costs calculation is relevant to that invoice – not a generic calculation (The amount of the shipping costs calculation has to balance on the amount on the invoice.)
        vi. Forwarding agent's invoice
        vii. The customs document.
    l. Please do not attach unnecessary documents, as this will make the file too large.
7. Other requirements:
    a. For foreign invoices, suppliers will still be required to physically deliver hard copies of original documents to the respective Document Management centres even though the invoices have been submitted electronically.
    b. Ensure compliance with the tax requirements for submitting invoices electronically.
    c. Each PDF should contain one credit note, one debit note, or one credit note only. More than one invoice can be submitted per email.
    d. Any CPA applicable is invoiced separately, allowing the rest of the invoices to be paid while CPA issues are resolved.
8. Include the following information on the Invoice:
    a. Name and address of the Contractor and the Project Manager
    b. The Contract number and title
    c. Contractor's VAT registration number
    d. The Employer's VAT registration number 4740101508
    e. The total amount invoiced, excluding VAT, the VAT and the invoiced amount including VAT
    f. Contractor's company registration number, if applicable
    g. Contractor's banking details
    h. Name and address of the recipient
    i. Tax invoice number and date of issue
    j. Description of goods/services provided

k. Quantity or volume of goods/services
l. Period time for which the Tax Invoice is being rendered
m. Relevant Task Order Number (commencing with a 45 prefix)
n. Relevant line-item number
o. State whether the value-added tax is included or excluded

2.10 Contract change management

Contract change management will be conducted in accordance with Clauses 16 (Early Warning) and 60 to 64 (Compensation Events). In addition to these core provisions, the following project-specific requirements apply to ensure efficient communication and control of changes:

1. All proposed changes, Early Warnings, or potential Compensation Events must be recorded in an Event Register, maintained and updated by the Project Manager.
2. In accordance with Clause 16, the Project Manager or Contractor must issue Early Warning notifications when events that could increase the total cost, delay Completion, or affect performance are identified.
3. For Compensation Events notified under Clause 61:
   a. The Contractor must submit a written quotation which includes:
      - A description of the event and its cause;
      - A breakdown of the assessed cost and time impact;
      - Supporting documentation as reasonably required by the *Project Manager*
4. The Project Manager will evaluate and respond to the quotation in writing as per Clause 62.
5. The Contractor implements instructions issued by the Project Manager in accordance with the conditions of contract. Where an instruction or event is a Compensation Event, its effect upon the Prices, Completion Date and any Key Dates is assessed and implemented in accordance with Clauses 60 to 65. Implementation of an instruction is not conditional upon prior agreement of the Compensation Event quotation.
6. The Contractor must:
   a. Notify the Project Manager of any proposed changes to subcontractors or their scope which may impact the contract;
   b. Ensure that any change to the Completion Date is incorporated into the latest Accepted Programme in accordance with Compensation Event outcomes.

2.11 Provision of bonds and guarantees

1. No performance bond or other contractual security is required unless expressly stated in Contract Data. Product, manufacturer and workmanship warranties expressly required by this Works Information remain applicable.

2.12 Records of Defined Cost, payments & assessments of Compensation Events to be kept by the *Contractor*

1. The Contractor must keep and maintain proper records of Defined Cost, payments and assessments of Compensation Events, in accordance with Clause 52.2 of the conditions of contract.

2. The following records must be kept, as a minimum:

Type of Cost	Type of Record
People employed by the *Contractor* (labour)	Signed timesheets, payroll reports, payslips
People employed by Sub-Contractors (labour)	Signed timesheets, certified payroll reports from Sub-Contractors
Equipment owned or hired	Equipment hire agreements, delivery notes, usage logs, plant daily reports and actual paid invoices
Plant and Materials	Delivery notes, invoices, stock issue records, material usage records and actual paid invoices
Work sub-contracted by the *Contractor*	Sub-Contract agreements, invoices, proof of payment, and relevant correspondence
Other Third-Party Costs	Third-party invoices, proof of payment
Accommodation	Invoices, proof of payment
Transport and Logistics	Vehicle logs, fuel records, transport invoices
Testing and Certification	Test certificates, inspection reports, laboratory results, calibration certificates
Insurance Costs (if reimbursable)	Insurance policy documents, premium invoices, proof of payment

3 Engineering and the *Contractor's* design.

1. The Employer provides the specifications of the corrosion protection coating system and the waterproofing system for all 3-unit enclosures, including their respective Air Intake structures and Exhaust stack structures.
2. This also includes the corrosion protection coating system and the waterproofing system for the MCC and Liquid Fuel Storage Tanks and associated structural steel supports, steel sheets (solid or perforated).
3. The Contractor is responsible for the full execution of the Works as specified below and ensures compliance with the relevant standards and the manufacturer's specifications.

3.1 *Employer's* design

3.1.1 Scope of Work

Scope of Works
General

- The *Contractor* must provide safe access to perform inspections and repairs. Qualified corrosion protection coating applicators and waterproofing applicators must perform the work as per the technical evaluation criteria.

- Mark out all corroded and affected areas with the *Employer*.

- Perform overall condition assessment of each Unit's Enclosure Structural Steel Work, including the units' Air Intake Steel structure and Exhaust Stack Steel Structure. Associated unit plant enclosures, such as the MCC and Busbar structure, are included, as well as the station's Liquid Fuel Storage Steel Tanks. The assessment should include, but is not limited to, material thickness assessment of parts to be coated to determine whether the part is in good condition or suitable to be coated, or the extent of material replacement required. Where the assessment requires NDT techniques, it should comply with Eskom's NDT standards. NDT testing to be approved after assessment and in consultation with the *Employer*.

- Where the base material or substrate of the Unit Enclosure, MCC and Busbar structure has completely degraded and cannot be repaired and coated with the appropriate corrosion protection coating system, the affected portion of material should be replaced with similarly approved material. The *Contractor* must note that the replacement of sheeting material is limited to the area of the defect only and not full replacement of a panel or panel/s, unless the *Employer* requests full replacement. This also applies to the replacement of structural steel members if identified and agreed with the *Employer*.

- The *Contractor* notes that all corrosion protection coating system preparations, repairs and coating applications are done in situ (i.e., with the components attached to the unit enclosure). Panels/sections/components that cannot be repaired in situ must be removed/rigged off by the *Contractor* and then repaired on-site. These Panels/sections/components will be identified and agreed upon by the *Employer* and *Contractor* during the assessment.

- Deteriorated non-shrink grout under the structural steel baseplates is to be removed and replaced with new non-shrink grout. Grout should be packed in layers according to the manufacturer's specifications. Non-shrink grout to be used for high built-up spaces, max.80mm. Corrosion assessment of the existing baseplate and applicable coating system to be applied.

- Existing door hinges and locks to be reused. The *Contractor* may remove hinges and locks during door repairs and reinstate them when complete. All doors are to be repaired in place.

Environment	C5 M as per ISO 12944-2 Table 1 – Categories of Corrosion, Plant Structures, Tanks, Vessels and Associated Piping Steel surfaces. External surfaces of concrete plinths and embedded structural steel are exposed to industrial coastal atmospheric conditions. • Operating Temperature: Ambient temperatures, 5 - 50℃ Exhaust Stacks External Temperature approximately 60℃ - 80℃. • Atmospheric conditions

Applicable Structure	**Coating System 1**
	Surface Preparation

Unit Enclosure incl. Air Intake and Exhaust Stack Structural Steel Work **Liquid Fuel Tanks**	**Mechanical Cleaning (all components where abrasive blast cleaning using high-pressure water washing is not possible/practical, due to visible corrosion and may lead to water ingress into sensitive areas).** • Remove all loosely adherent corrosion product using wire brushes and/or scrapers. All exposed steel surfaces must be cleaned to Grade St 2 • All previously coated surfaces must be thoroughly abraded with sandpaper to loosen chalking compound and to provide a mechanical anchor profile for the new coating. • This must be followed by high-pressure water washing (≥ 500 bar working pressure). NOTE:1 of the surfaces to remove salts, chalking compounds, corrosion products and other loose contaminants. Allow to dry completely. • **No more than four hours must elapse between cleaning and the application of the coating system.** • All nuts and bolts showing signs of significant metal loss must be replaced with new fasteners (match existing with similar replacement), whereafter they will be solvent wiped and coated with the same coating system. **Abrasive Blast Cleaning with high-pressure water washing (all components where abrasive blast cleaning is possible/practical).** • All surfaces must be high-pressure water-washed (≥ 500 bar working pressure) to remove salts and other loose contaminants. Allow to dry completely. • All exposed steel surfaces must be cleaned to Grade St 2 • **No more than 4 hours must elapse between cleaning and the application of the coating system.** • All nuts and bolts showing signs of significant metal loss must be replaced with new fasteners (match existing with similar replacement), whereafter they will be solvent wiped and coated with the same coating system. • Where material loss is evident, the affected section must be cleaned, and rust inhibitor paint protection applied. The affected section is covered by installing a piece of steel metal plate of the same thickness (6mm may be used where the existing sheet is less than 6mm), cut to fit over the opening with an overlap of 50mm onto the good remaining material. Holes will be drilled, and rivets will be installed to secure the opening in place. Apply the waterproofing wrapping system around the perimeter of the new plate before the Coating System application. • Where material loss is significant, rendering part of the plate/s of a component or all the plates of an entire component structurally compromised. This component/part component must be removed/rigged off the unit and repaired as follows. **Plate component replacement (On-site in demarcated Workshop with Welding Bay area)**

	• The component is rigged off the unit and moved to the site-demarcated Workshop. • The compromise plate is removed and replaced with a similarly approved plate. • The new plate is welded into position (all welding in the demarcated welding bay) and NDT tested. • Component is rigged back into position. **Note:** Alternatively, the component may be replaced by manufacturing it off-site by a specialist manufacturer. This option is allowed if the Contract offers benefits in terms of time and cost compared to on-site repairs/manufacturing in a demarcated area.
	Primer Layer • Apply a single layer of High Build (≥85% volume solids content), Surface Tolerant Aluminium Pigmented Epoxy mastic by brush and/or roller to the metal substrate that is exposed. During application, work the coating into all irregularities. **Dry film thickness (DFT) = 175 to 250 microns.**
	Stripe Coat • Apply by brush and/or roller, one coat, High Build (≥85 % volume solids content), Aluminium Pigmented Epoxy Mastic Coating to all accessible edges, weld seams, bolt holes and other crucial areas with the same material as the following/second coat. Work coating into all surface irregularities.
	First Coat. • Apply by spray or roller, one coat, High Build (≥85 % volume solids content), Aluminium Pigmented Epoxy Mastic Coating over existing aged coating. **Dry film thickness (DFT) = 175 to 250 microns (Excluding previous layer of aged coating).**
	Second Coat • Allowing sufficient time for the first and stripe coats to cure, the manufacturer's recommendations must be adhered to in this regard. Overcoat all surfaces with a single layer of Twin Pack Aliphatic Acrylic Polyurethane Enamel. Depending on the final colour to be selected and the application methods to be used, complete coverage or hiding of the substrate may only be achieved with the application of a second coat of Twin Pack Aliphatic Acrylic Polyurethane Enamel. Colour to match the existing. • The colour of the final/finishing coat must be as per the instructions of the *Employer* or requirements of 240-145581571: Standard for the Identification of the Contents of Pipelines and Vessels. **Dry film thickness (DFT) = 50 to 90 microns.** **Dry film thickness (DFT) of complete system = 400 to 590 microns.**

<table>
<tr><td colspan="2">Generic System for all exposed steel substrates. Epoxy Mastic/Urethane system</td></tr>
<tr><td><u>Applicable Structure</u></td><td><u>Coating System 2</u></td></tr>
<tr><td rowspan="4"><u>MCC and Busbar Structural Steel Work</u></td><td><u>Surface Preparation</u>

<u>Mechanical Cleaning where high-pressure water washing is not permitted (Extremely sensitive equipment).</u>

• Remove all loosely adherent corrosion product using wire brushes and/or scrapers. All exposed steel surfaces must be cleaned to Grade St 2-St3.

• All previously coated surfaces must be thoroughly abraded with sandpaper/mechanical wire brush to loosen chalking compound and to provide a mechanical anchor profile for the new coating.

• Existing waterproofing on Busbar is to be removed. Existing waterproofing along the perimeter of the MCC and the roof is to be removed.

• All nuts and bolts showing signs of significant metal loss must be replaced with new fasteners, where after they will be solvent wiped and coated with the same coating system.

• All exposed steel surfaces must be cleaned to Grade St 2

• Where material loss is evident, the affected section must be cleaned, and rust inhibitor paint protection applied. The affected section is covered by installing a piece of steel metal plate of the same thickness (6mm may be used where the existing sheet is less than 6mm), cut to fit over the opening with an overlap of 50mm onto the good remaining material. Holes will be drilled, and rivets will be installed to secure the opening in place. Apply the waterproofing wrapping system around the perimeter of the new plate before the Coating System application.</td></tr>
<tr><td><u>Primer Layer</u>

• Apply a single layer of High Build (≥85% volume solids content), Surface Tolerant Aluminium Pigmented Epoxy mastic by brush and/or roller to the metal substrate that is exposed. During application, work the coating into all irregularities.

Dry film thickness (DFT) = 175 to 250 microns.</td></tr>
<tr><td><u>Stripe Coat</u>

• Apply by brush and/or roller, one coat, High Build (≥85 % volume solids content), Aluminium Pigmented Epoxy Mastic Coating to all accessible edges, weld seams, bolt holes and other crucial areas with the same material as the following/second coat. Work coating into all surface irregularities.</td></tr>
<tr><td><u>First Coat.</u>

• Apply by spray or roller, one coat, High Build (≥85 % volume solids content), Aluminium Pigmented Epoxy Mastic Coating over existing aged coating.</td></tr>
</table>

	Dry film thickness (DFT) = 175 to 250 microns (Excluding previous layer of aged coating).
	Second Coat • Allowing sufficient time for the first and stripe coats to cure, the manufacturer's recommendations must be adhered to in this regard. Overcoat all surfaces with a single layer of Twin Pack Aliphatic Acrylic Polyurethane Enamel. Depending on the final colour to be selected and the application methods to be used, complete coverage or hiding of the substrate may only be achieved with the application of a second coat of Twin Pack Aliphatic Acrylic Polyurethane Enamel. • The colour of the final/finishing coat must be as per the instructions of the *Employer* or requirements of 240-145581571: Standard for the Identification of the Contents of Pipelines and Vessels. **Dry film thickness (DFT) = 50 to 90 microns.** **Dry film thickness (DFT) of complete system = 400 to 590 microns.**

WATERPROOFING COATING SYSTEM	
Applicable Structure	**Waterproof Coating System**
Interface between concrete base and Unit Enclosure perimeter **Air Intake structure interface with horizontal structure** **Exhaust Stack Structure interface with horizontal structure, i.e. Roof hatch / Roof panels**	**Surface Preparation** • Ensure the surface is completely dry with relative humidity not greater than 85% • Coating to be at least 24 hours past full cure prior to application • Ensure the surface temperature is greater than 3 degrees above the dew point • No specific profile or chloride tests are required • Use an appropriate tool, such as MBX, to lightly dull the surface of the coating in the application area • Wipe the application surface area with isopropanol alcohol • Carry out a Visco-elastic pure Polyisobutylene strip test on the surface to check surface cleanliness, ensuring a greater than 95% adhesion is achieved, and the removal of all dirt, loose particles and any other contaminants has been achieved
Liquid Fuel Tanks interface with concrete base. **MCC Roofs and MCC Structure interface with concrete base**	**Application Procedure** • Material to be cut to appropriate lengths from the rolls of Stopaq supplied, or as directed by the manufacturer. • Stopaq Wrapping band EZR pure homopolymer Polyisobutene material to be placed along the joints from the bolt edge covering over the seams, where applicable. • Press firmly along the seam line, making sure no tenting occurs • Where vertical and horizontal seams meet, press firmly at the cross over • Max 15mm overlaps to be provided where vertical and horizontal corners interface or in all overlapping instances (i.e., covering of flat surface, both vertical and horizontal)

Busbar Structure Roof Sections	• Method statement to clearly indicate all application scenarios per location to be waterproofed. Reference to include areas where patch repairs are intended to cover openings.
	Inspection Procedure • Once the application is completed in each specific area, as agreed in the QCP and program, a visual inspection is conducted to verify full adhesion to the surface by the certified and approved applicator. • The Stopaq inspector will inspect the work carried out by a certified and approved applicator to finalise the application and issue a guarantee to the *Project Manager*.

The waterproofing coating system specified above is specific to the STOPAQ Range for the waterproofing system. A similar waterproofing system may be presented as an alternative; however, it must match or provide better performance, if cost-effective.

In all cases, only a qualified and approved installer of the approved waterproofing coating system will be allowed. Coating system manufacturers must ensure that a warranty and guarantee of the system are issued upon completion of the coating system for both workmanship (installation) and materials. QCP documents must include the coating system manufacturer's intervention point.

IN RESPECT TO ALL THE ABOVE-MENTIONED COATING SYSTEMS

With respect to aspects not mentioned in the above coating specification table (e.g. mixing ratios, pot life, straining, thinning, induction times, over-coating and curing times), the manufacturer's recommendations must be strictly adhered to.

This specification sheet covers repairs to existing external component coatings and is applicable to the Acacia Plant Structures and their associated components.

NOTE 1: Refer to the "Safety Requirements and Considerations" section below for safety requirements when conducting high-pressure water washing. Specific Safety Requirements in Relation to High-Pressure Water Washing/Jetting (HPWJ)

- Operators must wear CE (European Economic Area Conformity Marking) certified water jetting suits and face shields rated for the working pressure as stated in the tables above.
- All foot and leg protection equipment is to be appropriately rated for the working pressure as stated in the tables above.
- The *Contractor* must work in accordance with a safety procedure/instruction aligned to industry recognised HPWJ practices and standards to protect personnel using HPWJ equipment.
- HPWJ operators must be trained and certified by an independent industry-recognised HPWJ authority affiliated to either WJA or WJTA.
- All HPWJ hoses, pressure accessories, pressure equipment, and pressure vessels in the HPWJ system must be designed for the pressures stated in the tables above. All previously mentioned equipment must be pressure tested to 1.25 times the design pressure of the equipment.
- All hose end connections are to be fitted with the appropriate "hose checks" to prevent injury by restraining the hose in the event of an end fitting failure.

- The HPWJ pump discharge must be fitted with a calibrated pressure gauge and safety relief valve or rupture diaphragm.
- Barriers and Warning notices must be in place before any work commences.
- Specific requirements related to Eskom's "Life Saving Rules" that would be applicable to this activity.

3.2 Parts of the Works which the *Contractor* is to design

1. The Contractor's "Design," as mentioned in the heading above and referenced in this document, refers to the execution of the scope of work.
2. The Contractor is responsible for the execution of the scope of work as listed in 3.1, and in doing so would need to ensure that it includes, but is not limited to, the following specific project requirements:
3. Contractor to conduct, per unit, a visual inspection/survey/condition assessment of all corrosion affected areas on the Unit Enclosure (inside and outside), Air intake structure, Exhaust stack structure, Steel ducts and covers, hinges, doors, bolts, MCC, Busbar, Liquid fuel tanks and every steel member/sheets/perforated sheets associated with structure mentioned prior and provide as part of their method-statement with photos, of the affected areas and structural members to be treated. Employer to sign off on method statements, QCP, and data sheets prior to the Works commencing. Visual inspection/survey/condition assessment will be done with the Employer present.
4. Contractor to use Employer-issued drawings of the unit enclosure and associated plant as mentioned above to mark-up affected areas and structural members as part of the method statement to determine the exact and full extent of affected areas and structural members. Where changes to the plant are required that alter the base of the affected equipment or component, an As-Built drawing must be provided upon completion of the corrosion protection coating systems application, serving as a reference for both repaired and non-repaired areas.
5. The Contractor will be required to submit method statements, QCP documents, and data sheets of products to be used as part of the corrosion protection coating or waterproofing systems, detailing the following as a minimum:
    a. Overall condition of the Unit Enclosure, Air intake structure, Exhaust stack structure, MCC, Busbar and Liquid fuel tanks and associated structural steel member and or equipment and components
    b. Quantify the nature and extent of Defects identified compared to the quantity measured in the BOQ as provided in the tender enquiry.
    c. Baseline of Defects for future inspection.
    d. Complete repair methodology of Defects found.
    e. Life-cycle structural performance and maintenance strategies.
    f. Recommendations on which Corrosion Protection Coating System or Waterproofing system is applicable to the different equipment/components, and conclusions.
6. The Contractor will take cognisance of the fact that after initial surface preparation as above, the Employer may require access for a further inspection and assessment to determine the need for possible mechanical repairs, i.e. welding. This inspection can only be carried out once the surfaces have been blast cleaned in preparation for coating. The depth and morphology of corrosion damage, as well as the extent of component wall thickness loss and pitting, need to be considered.

7. For steel, the following guide (dependent on installed wall thickness) can be applied to all areas of extensive deep pitting:
   a. All pits less than 5mm in depth and all edges and weld seams must be stripe-coated after application of the primer/first coat.
   b. All severely grooved/corroded welds must be filled by welding (repair procedure must be submitted to Employer for approval). Perforations and defects, such as pitting, that are close to the wall thickness must be repaired by placing a new plate over the affected area with a 50mm overlap onto sound base material. The plate must be drilled and riveted onto the external/exposed surface prior to applying Stopaq wrapping to cover the plate and finish with the topcoat of the coating system.
   c. The inspected surfaces will be re-blasted with high-pressure water washing if more than four hours have elapsed since the initial surface preparation.
8. At all times, care must be taken to ensure adequate protection of any surfaces and parts of components or systems not requiring blast cleaning and coating (for example, the name plates, valves, and piping), and every effort must be taken to prevent water and other dirt from entering the system. Name plates to be removed, cleaned and reinstalled after painting. Faded signage to be redone as part of the Works.
9. No coatings must be applied over any surfaces where this will adversely affect the performance of the item or component. The Contractor must engage the Employer to verify such surfaces prior to execution.
10. All materials, i.e. paint, solvents and cleaning agents for a specific paint system must be supplied by the same manufacturer. The solvents used must be those recommended and manufactured by the paint manufacturer. Where the recommended ‘solvent’ and ‘clean-up thinners’ for a material differ, the ‘clean-up’ solvent must not be added to the paint for dilution purposes.
11. Corrosion Protection must only proceed once all mechanical activities have been completed and released in terms of the manufacturing/fabrication Quality Control Plan (QCP).
12. Removal of dust and debris must be performed by vacuuming. The process must be repeated until the required level of dust and debris removal is achieved.
13. The level of cleanliness required must be less than “dust quality rating 2” when tested in accordance with ISO 8502-3.
14. Plural spray equipment is not permitted. Coating application by airless spray must be performed by means of conventional airless spray equipment with the capability of suitably pumping and atomising the paint over a 20-metre distance from the spray pump. The spray nozzle and spray pattern must be as per the manufacturer’s recommendations. (If this method of application is used).
15. The Contractor is responsible for the complete surface preparation and coating application. The coated surfaces must meet the DFT as required by this specification sheet and aspects thereof in the referenced documents.
16. Narrow gaps, blind crevices, and lap joints should, wherever practical and possible, be seal-welded. This must be identified by the Contractor and approved by the Employer in a timely manner. Where this is not possible, then the crevice/gap must be filled with a sufficient bead of sealant after completion

of the complete coating system to form a continuous gasket/seal. Prior to application of the sealant, the joint/gap must be blown clean using suitable compressed air to remove dust and debris.

17. Hand-tool cleaning for isolated/localised areas may be utilised, provided the required standard of finish is achieved. This is also applicable to plant areas where blasting is not recommended due to the sensitivity of equipment, i.e., Busbar and MCC.
18. Substrate cleaning by means of hand or power-tools, i.e. wire brushes, chipping hammers, scrapers, grinders, sanders, needle descalers, bristle blasters etc. may only be used where accepted by the Eskom engineer and where the position and condition of the substrate metal is such that efficient cleaning and surface profile can be achieved and where the protective coating system is designed for application to brushed or ground surfaces i.e. specifically formulated surface tolerant coatings.
19. All welds must be free of slag, slag inclusions and pinholes. Adjacent areas must be free of weld spatter, which must be removed by grinding or scraping.
20. Burnishing of the surface must not be permitted.
21. Prior to any surface preparation, all surfaces that are or are likely to be contaminated with oil must be solvent cleaned with a suitable water-soluble biodegradable alkaline cleaner/detergent or with appropriate organic solvents.
22. Cleaning may be performed by using white, lint-free rags for small areas or a spray gun for large areas. The detergent/solvent-cleaned surfaces must then be thoroughly washed down with fresh/clean water, ensuring that the oil-water emulsion formed is completely removed from the metal. Special attention must be paid to drillings, bolt holes, etc.
23. In all cases, after wire brushing or grinding, all traces of loose material must be removed from the surface by compressed air and vacuum cleaning.
24. Mobile Crane and/or Cherry picker and/or Fixed Scaffolding and/or Mobile Scaffolding required during inspection and execution of the Works, Contractor to provide all equipment necessary to inspect and/or execute Works.
25. All corrosion protection coating and repair work to be conducted in place (i.e., panels/stacks left in original position during preparation, local remedial, if required, and coating application). Contractor to allow for minor fabrication and welding on-site (if needed). Engage the Employer regarding the designated area for this activity to be performed. Employer and Contractor to agree on all minor fabrication.
26. Contractor with Employer guidance to develop critical equipment protection. This is different to the general protection of equipment. If temporary hoarding is required based on site clarification, then this must be included in the project plan and Method statement.
27. The Contractor must determine surface preparation, measure climatic conditions, and verify every applied paint coat to ensure the specified dry film thickness is achieved before applying the next coat (QCP must indicate a specific hold point for testing and verification of the application process). Complete data pack to be issued to the Employer upon Completion.
28. Contractor to communicate to Employer prior to site establishment, specific requirements to ensure the Works are executed as per Employer’s specification or methods to consider, which may lead to saving time and cost. The Employer reserves the right to engage in such deliberations.

29. Employer cannot be held liable if not able to assist with any or all of Contractor's specific requests besides what's in the NEC contract.
30. The Contractor must not rely on the completeness or accuracy of Employer-supplied drawings or data without verification and must ensure that all aspects are fully compliant with the Employer's requirements, applicable legislation, and best practice standards.
31. Acceptance or use of any Employer-supplied information does not relieve the Contractor of any obligations regarding the execution of the coating systems.

3.3 Procedure for submission and acceptance of the Contractor's design

1. Acceptance of reports and drawings by the Project Manager will imply that:
    a. Detailed method statement with QCPs and data sheets of corrosion protection coating system and waterproofing system application of all reported locations and conditions.
    b. A detailed program with an activity matrix is to be submitted for approval. The Works are to be programmed in stages to ensure a logical approach to all activities and resource utilisation. Information to be presented, per unit, i.e., Unit Enclosure 1 (incl. Air Intake, Exhaust Stack, MCC & Busbar), Unit Enclosure 2 (incl. Air Intake, Exhaust Stack, MCC & Busbar), Unit Enclosure 3 (incl. Air Intake, Exhaust Stack, MCC & Busbar) and Liquid Fuel Tanks A & B. The Contractor is to take due notice of all applications and curing times required in the application of the coating and waterproofing systems. Specific product requirements must be adhered to.
    c. Acceptance of the method statement, QCP, or samples does not relieve the Contractor of his total liability to complete the Works in accordance with the Works Information, Schedules, and the Conditions of Contract, nor does it exonerate him from any of his guarantees.
    d. All correspondence and submittals are to be prominently identified as relating to the Works. They are submitted under the cover of appropriate letters or transmittal notes in accordance with the correspondence procedures, which the Project Manager will advise after the signing of the Contract. All documentation supplied by the Contractor to the Project Manager in hard copy is provided in electronic format.
    e. Paint & Waterproofing Manufacturers and Contractors' workmanship guarantee to be issued to the Employer on Completion.
2. All documentation must be specific to the Works on:
    a. Unit Enclosure 2: Air Intake, Exhaust Stack, MCC, and Busbar;
    b. Unit Enclosure 3: Air Intake, Exhaust Stack, MCC, and Busbar;
    c. Liquid Fuel Tanks A and B.
3. Each submission must clearly state:
    a. The section of the Works Information it relates to;
    b. The relevant plant area, system, or equipment;
    c. Any associated Bill of Quantities (BoQ) item reference.

3.3.1 Contractor responsibility and guarantees

1. Acceptance of any submission by the Project Manager does not relieve the Contractor of its responsibility for:
    a. The correctness, completeness, and suitability of the submitted documents;

b. Execution of the Works in accordance with the Works Information;
c. Achieving the required performance standards and outcomes;
d. Rectification of any non-conformances, Defects, or deficiencies discovered during or after execution.

2. At Completion, the Contractor must submit:
   a. A guarantee or warranty issued by the manufacturer(s) of the coatings and waterproofing systems confirming application as per the manufacturer's specifications;
   b. A workmanship warranty issued by the certified applicator confirming installation in accordance with the manufacturer's instructions;
   c. A comprehensive final data pack containing all inspection records, calibrated instrument logs, signed QCPs, photographic records, DFT readings, environmental condition logs, and certificates of compliance.
3. The Project Manager does not certify Completion until the documentation required to demonstrate compliance of the completed Works has been submitted, except for those post-Completion deliverables expressly permitted under Section 5.2.1.

3.4 Other requirements of the Contractor's design

The *Contractor* notifies the *Project Manager* in a timely manner when part of their Works necessitates interaction with existing plant and structures or outage-related activities, thereby enabling the Completion of their Works for acceptance.

3.5 Use of the Contractor's design

1. The Contractor grants the Employer a perpetual, royalty-free, irrevocable, non-exclusive licence to use, copy, adapt and translate all drawings, models, calculations, method statements, manuals and other design outputs prepared by (or for) the Contractor for:
   a. Operation, inspection, maintenance, repair and modification of the Works.
   b. training of Employer's personnel; and
   c. eventual decommissioning and disposal of the plant.
2. The Employer may disclose the Contractor's design information to:
   a. Its employees, advisers, insurers and regulators; and
   b. Future Contractors engaged on related Works at Acacia Power Station, provided such recipients are bound by confidentiality obligations no less stringent than those in the Contract.
3. Where the Contractor intends to incorporate proprietary software, specialist systems or copyrighted data owned by a third party, the Contractor will:
   a. obtain a written sub-licence that permits the Employer to exercise the rights listed in point 1; and
   b. include the sub-licence in the relevant design-submission package.
   c. If the Contractor cannot secure such rights, he must propose an alternative that gives the Employer equivalent functionality without additional cost.
4. Granting the above licence does not relieve the Contractor of any design responsibility or liability under the Contract, nor does the Employer's use of the design constitute acceptance of any error, omission or Defect.

5. The Contractor indemnifies the Employer against all claims, proceedings and costs arising from any alleged infringement of intellectual-property rights in connection with the Contractor's design, except to the extent that such infringement results from misuse or unauthorised alteration by the Employer.

3.6 Design of Equipment

1. The Contractor must ensure that all temporary and specialist equipment used during execution of the Works is appropriately designed, selected, and configured to enable safe, efficient, and uninterrupted progress of the Works, and to ensure that all critical plant and infrastructure are adequately protected at all times.
2. This includes, but is not limited to, the following categories of Equipment:
    a. Mobile cranes and any associated lifting devices required for installation, repair, or access work;
    b. Scaffolding systems (fixed, mobile, or suspended) are used for surface preparation, inspection, and coating activities.
    c. Temporary hoarding or shielding structures are necessary around sensitive equipment, such as fuel tanks, switchgear, and control panels, particularly when abrasive blast cleaning is used with high-pressure water jetting to contain the spread of the material during the water blasting process.
    d. Access platforms, MEWPs, or ladders are used to reach elevated work areas.
3. The Contractor is responsible for ensuring that all such equipment is:
    a. Appropriately rated for the intended purpose and complies with relevant SANS or ISO standards;
    b. Designed to avoid any interference with the operation or safety systems of adjacent plant and equipment;
    c. Positioned and secured in a manner that ensures worker safety and allows for clear escape routes and emergency access;
    d. Designed to enable protection of critical infrastructure from contamination, mechanical damage, or overspray (for example, splash control hoarding around Liquid Fuel Tanks during HPWJ activities).
4. If instructed by the Project Manager, the Contractor will submit the design particulars of any Equipment for acceptance prior to its use. These particulars may include layout drawings, structural certifications, method statements, and risk assessments, as required by the Project Manager.
5. The Contractor will not proceed with the use of such Equipment until the Project Manager has accepted the submission. Acceptance does not absolve the Contractor of responsibility for the adequacy or safety of the Equipment.

3.7 Equipment required to be included in the Works

1. The Contractor provides all resources, equipment, and services in compliance with the OHS Act. This includes all working at heights requirements, certification, equipment, and compliance needed to carry out the Works
2. The Contractor provides all mobile access, scaffolding, ladders, rope access and lifting/rigging to perform the Works. The Contractor provides and erects such scaffolds, hoarding and rigging as and when it may be required. All scaffolding and/or rigging must comply with the requirements of the OHS Act.

3. Contractor allows for mobile crane use where conventional rigging is not possible or is required to remove, move to a demarcated Workshop area, and/or re-install after remedial work is complete. The Contractor must decide the size of the mobile crane to ensure the Works are executed safely. Eskom is available to assist with providing specific weights of plant equipment upon enquiry.

3.8 As-built drawings, operating manuals and maintenance schedules

1. Before the Project Manager may issue the certificate of Completion, the Contractor must provide all documentation required to demonstrate that the permanent Works have been completed in accordance with the Works Information. This documentation includes, but is not limited to:
   a. As-built drawings reflecting all modifications or deviations from the original Employer-issued designs;
   b. Signed test certificates, including but not limited to corrosion protection coating thickness results, adhesion testing, waterproofing application verification, and any other agreed tests listed in the QCP;
   c. Signed Quality Control Plans (QCPs) and associated check sheets for each stage of the Works;
   d. Data from Dry Film Thickness (DFT) test results, recorded per coat and location, with final system totals clearly stated and signed off;
   e. Inspection and acceptance records of Stopaq or other waterproofing system installations, verified by both the certified applicator and the Stopaq inspector, as applicable;
   f. Operating manuals and product datasheets, provided for any proprietary systems, coatings, or products used in the execution of the Works, including manufacturer instructions for touch-up and future maintenance;
   g. Maintenance schedules, including frequency, inspection criteria, surface preparation requirements and product compatibility information for future touch-ups or recoating activities.
2. The Contractor will:
   a. Submit as-built drawings and updates reflecting any changes to existing plant as per the Employer's supplied drawing standards;
   b. Ensure all drawings are reviewed and verified by a competent person and marked clearly as “As-Built”;
   c. Deliver all drawings in the following formats:
      i. Electronic format: MicroStation Version 8 (Bentley Systems Inc.) and DWG (AutoCAD compatible);
      ii. One PDF version for document control.
      iii. Two hard copies printed on full-size paper A0.

3. Throughout the execution of the Works, the Contractor must supply any information necessary for the Project Manager to check the ongoing development of “as-built” records. Such information must be submitted regularly and timeously, and in full prior to Completion.
4. Failure to provide documentation required for Completion may prevent the relevant work from satisfying the Completion requirements stated in this Works Information.

4 Procurement

1. The Contractor provides all labour, supervision, tools, equipment, vehicles, scaffolding, hoarding, temporary Works, consumables, cleaning materials, lifting gear, and accessories necessary to Provide the Works.
2. The Contractor is responsible for the procurement, fabrication, manufacturing, delivery, off-loading, handling, storage, installation, testing, and commissioning of all Plant and Materials required to Provide the Works, including disposal of waste and final finishing.

4.1 People

4.1.1 Minimum requirements of people employed on the Site

1. The Contractor ensures that all people employed on the Site:
    a. Are legally entitled to work in the Republic of South Africa.
    b. Foreign Workers must only be employed where:
        i. Appropriate work permits or other legal authorisations are in place.
        ii. Approval has been obtained from the *Employer* prior to engagement.
2. Have received appropriate training and qualifications relevant to their tasks on the project (excluding Health and Safety training, which is addressed separately).
3. Hold required competency certifications (electrical work, working at heights, lifting operations, etc.).
4. Have completed the Employer's site-specific induction programme before commencing work.
5. They are included in a site-specific register, which must be maintained by the Contractor and made available to the Project Manager upon request.

4.1.2 BBBEE and preferencing scheme

1. The Contractor complies with and fulfils the Contractor's obligations in respect of the Broad-Based Black Economic Empowerment (as per clause Z3 of ECC3).
2. The Contractor, as well as his subcontractors, provides valid B-BBEE certificates to the Project Manager when updates are required.

4.1.3 Accelerated Shared Growth Initiative – South Africa (ASGI-SA)

1. The Contractor complies with and fulfils the Contractor's obligations in respect of the Accelerated and Shared Growth Initiative - South Africa in accordance with and as provided for in the Contractor's ASGI-SA Compliance Schedule stated
2. The Contractor keeps accurate records and provides the Project Manager with reports on the Contractor's actual delivery against the above-stated ASGI-SA criteria.
3. The Contractor's failure to comply with his ASGI-SA obligations constitutes a substantial failure on the part of the Contractor to comply with his obligations under this contract.

4.2 Subcontracting

4.2.1 Preferred subcontractors

None

4.2.2 Subcontract documentation and assessment of subcontract tenders

1. The *Contractor* prepares subcontract documentation in a manner consistent with:
    a. The main contract and this Works Information.
    b. The Employer's standards and expectations regarding quality, safety, compliance, and reporting.
2. The use of the NEC family of contracts (NEC3 ECS or NEC3 SC) for subcontracting is strongly recommended. If the Contractor proposes to use other forms of subcontract, this must be approved in writing by the Project Manager prior to the issue of subcontract documentation.
3. Subcontract tenders must be:
    a. Issued following a process that ensures transparency and fairness.
    b. Assessed by the Contractor in consultation with the Project Manager, where practical (through submission of a joint assessment report for major subcontract packages exceeding R500,000 or as otherwise instructed).
    c. Awarded on the basis of:
        i. Technical compliance.
        ii. B-BBEE requirements.
        iii. Cost effectiveness.
        iv. Proven ability to meet the required delivery schedule

4.2.3 Limitations on subcontracting

The *Contractor* must not subcontract more than 30% of the total value of the Contract without prior written approval from the *Project Manager*.

4.2.4 Attendance of subcontractors

1. Any subcontractor is required to work under the direct supervision of the Contractor.
2. The Contractor's organograms indicate the lines of authority and communication of all the Contractor's site employees, including subcontractors.

4.3 Plant and Materials

The *Contractor* must provide proof of compliance with all material specifications, including submission of samples and supporting documentation where required. This requirement applies equally to Plant and Materials and Equipment provided by Subcontractors.

4.3.1 Quality

1. The Contractor ensures that corrosion protection meets the quality requirements of Eskom Standard 240-106365693 for the External Corrosion Protection of Plant, Equipment and Associated Piping with Coatings.
2. The quality requirements are as per Employer's Standard 240-105658000: Supplier Quality Management Specification.
3. The Contractor establishes and implements a system that, as a minimum, meets the requirements of the ISO 9000 series for quality management systems.
4. The main objectives of this series are to ensure that appropriate quality requirements are employed to comply with the services.
5. The Contractor ensures that appropriate quality requirements are in place to comply with the services.
6. The Contractor notifies the Employer of any proposed changes to the quality management system that will affect the contract quality requirements, prior to implementing such changes.
7. Corrosion protection coating system application, Quality Control Plans (QCPs) and detailed method statements to be presented by the Contractor for Employer’s Acceptance.
8. Civil Engineering Works to meet the quality requirements of the standards listed in Section 6.3. Civil engineering and structural Works

4.3.2 Plant & Materials provided “free issue” by the *Employer*

No Plant or Materials will be provided free issue by the *Employer* under this contract.

4.3.3 *Contractor*’s procurement of Plant and Materials

1. The Contractor is responsible for ordering, tracking, storing, handling, transporting, and protecting all Plant and Materials required for the Works.
2. The Contractor ensures that all procured items comply with specified standards and are compatible with the installation and operational requirements defined in the Works Information.
3. Where applicable, the Employer may require that warranties or guarantees from suppliers be issued in favour of the Employer rather than the Contractor.
4. Vendor documentation (e.g., product datasheets, test reports, certificates of origin, warranties) needed by the Employer for operation and maintenance is submitted prior to Completion.

4.3.4 Guarantee Inspection

1. The Contractor provides a guarantee on the Works and further includes labour and materials in his guarantees.
2. The Latent Defects Period is as per the NEC Contract. Product guarantees as per the manufacturer’s specifications

4.3.5 Spares and consumables

If additional spares or consumables are required under the Works Information, these will be supplied by the *Contractor* as part of their obligation to Provide the Works.

4.4 Tests and inspections before delivery

1. The Contractor will provide a reference sample of the corrosion protection coating system to the Project Manager for acceptance. This sample must:
    a. Be submitted as part of the Contractor's Inspection and Test Plan (ITP);
    b. Be used to establish a benchmark for future inspections.
    c. Be accepted by the Employer prior to the commencement of the large-scale application.
2. The Contractor must manage this submission and acceptance process to ensure that it does not delay the start of the Works or adversely affect the Accepted Programme.

4.5 Marking Plant and Materials outside the Working Areas

All Equipment, Plant and Materials located outside the *working areas* and intended for payment prior to incorporation into the Works are clearly marked with the following:

- Acacia Power Station – [*Contractor*'s Name]

4.6 *Contractor*'s Equipment (including temporary Works).

1. The Contractor must provide all Plant and Materials, Equipment, tools, machinery, and access systems necessary to execute the Works, including:
    a. Certified working-at-height systems and anchor points;
    b. Lifting equipment compliant with the OHS Act and included in the approved safety file;
    c. Mobile elevated work platforms, scaffolding, and hoarding;
    d. Temporary utilities and facilities for personnel and equipment.
2. The Contractor must:
    a. Ensure that any sophisticated or specialised equipment required to perform the Works is notified in writing to the Project Manager prior to procurement;
    b. Provide photographs of above-ground work areas during construction as part of the project QA records.
    c. Remain responsible for all transportation of Equipment, Plant and Materials to and from the Site;
    d. Maintain and secure all Contractor's Equipment throughout the Works;
    e. Ensure that Contractor's Equipment does not obstruct plant access or impair Employer operations.

4.7 Cataloguing requirements by the *Contractor*

Cataloguing is not applicable to this Contract.

5 Construction

5.1 Temporary Works, Site services & construction constraints

5.1.1 Employer's Site entry and security control, permits, and Site regulations

1. Access to the Power Station is strictly controlled by the Employer's security protocols and procedures. No personnel must be permitted onto the Site without prior security clearance and completion of the Employer's mandatory Site Induction.
2. The Contractor must ensure that all employees, subcontractors, and visitors undergo and complete the full Site Induction prior to commencing any work on the Site. Attendance records must be maintained and submitted upon request.
3. It remains the Contractor's responsibility to familiarise themselves with and fully comply with all current site rules, safety requirements, and access control protocols, including any updates or temporary changes issued by the Employer or Site Security.
4. A valid, approved Safety, Health and Environmental (SHE) File must be submitted and accepted by the Employer's Safety Representative before any work or site establishment commences.
5. The Contractor must obtain and maintain all necessary permits and authorisations required to carry out the Works, including but not limited to Permits to Work, Hot Work Permits, and Working at Heights Permits, where applicable. These permits must be available on-site at all times and presented during inspections.
6. Daily site entry and exit must be logged in accordance with the Employer's requirements.
7. The Contractor is required to appoint a competent Construction Manager who is permanently present on Site during all construction activities. This person must be responsible for ensuring workforce compliance with Site safety, environmental and security protocols.
8. The Contractor will attend daily coordination meetings with the Project Manager prior to commencement of work for the day. During these meetings, work activities, access restrictions, interface coordination and safety considerations will be confirmed.
9. The Employer may revise site regulations and access procedures at any time in response to changing operational, environmental or security conditions. The Contractor is expected to cooperate fully with such changes without delay or claim.
10. No unauthorised photography, drone use, or public communication regarding the Works must occur without the Employer's prior written approval.
11. All Contractor personnel must carry valid identification at all times while on Site. Access to restricted areas will only be granted to personnel with appropriate authorisation.
12. The Employer reserves the right to deny access or remove any person from the Site for non-compliance with Site regulations, safety requirements, or for conduct deemed inappropriate or unsafe.

5.1.2 Restrictions to access on Site, roads, walkways and barricades

1. The Contractor must strictly adhere to all access restrictions imposed by the Employer within the boundaries of the Site. These include designated access routes, restricted zones, operational areas, and exclusion zones as defined in the Site layout plan or as instructed by the Project Manager.

2. The Contractor must ensure that all roads, walkways, stairwells, plant access points, and emergency escape routes remain clear and unobstructed at all times. Storage of materials, equipment, or waste in these areas is strictly prohibited.
3. All temporary access points, routes, or crossings required by the Contractor must be submitted in advance for acceptance by the Project Manager. Once approved, these routes must be clearly demarcated, maintained, and removed upon Completion.
4. Any unauthorised restriction or obstruction of Site access routes, or failure to maintain adequate protection for personnel and plant in shared access zones, may result in the removal of personnel or suspension of affected work at the Contractor's cost.
5. The Contractor must implement and maintain appropriate lighting, safety barriers, and delineation for all Works in areas used by Others or near operational plant.
6. All barricades, fencing, and temporary access structures must comply with applicable health and safety legislation and must be regularly inspected and maintained in good working condition.
7. Upon Completion of the Works or when access is no longer required, the Contractor will remove all temporary access facilities and barricades, and the area will be reinstated to the condition specified by the Employer or Project Manager.

5.1.3 People restrictions on Site; hours of work, conduct and records

1. The Contractor ensures that all personnel employed on Site, including subcontractors, are recorded daily. These records must include full names, ID/passport numbers, contact details, job descriptions, and times of arrival and departure. These records must be kept up to date and made available to the Project Manager at any time for review or audit purposes. Records may be used when assessing Compensation Events.
2. The Contractor must ensure that only personnel with valid Site induction and access permits are allowed on Site. The Contractor is responsible for controlling Site access for its personnel and subcontractors and must adhere strictly to all security and safety requirements.
3. Normal working hours on Site must be:
    - Monday to Thursday: 07:30 – 16:45
    - Friday: 07:30 – 12:30

    Note: Fuel tank refurbishment will be done during normal working hours or outages (when applicable and station support staff is available).
4. During outages or when otherwise approved in writing by the Project Manager, extended working hours are permitted as follows:
    - Monday to Saturday: 07:00 – 17:30

    Note: Acacia Unit Enclosures for unit 1,2 and 3 will be done during outages.
5. All Contractor personnel must at all times behave professionally and safely while on Site. Misconduct, non-compliance with safety rules, or any illegal activity will result in immediate removal from Site and possible further action.
6. The Contractor ensures that the same standards of conduct and recordkeeping apply to all subcontractors.

5.1.4 Health and safety facilities on Site

1. The Contractor establishes, maintains, and demobilises all health and safety facilities required for the proper execution of the Works, in compliance with the Occupational Health and Safety Act (Act No. 85 of 1993), Construction Regulations, and Eskom's Safety, Health, Environmental and Quality (SHEQ) requirements.
2. The Contractor provides and maintains, at their own cost, the following minimum health and safety facilities at the Site:
    a. A fully equipped first aid station, including certified first aid kits.
    b. Trained and certified first aiders on-site during all working hours.
    c. Clearly demarcated and equipped emergency assembly points.
    d. Signage displaying emergency contact numbers and evacuation procedures.
    e. Facilities for safe storage and handling of hazardous substances in compliance with MSDS requirements.
    f. Provision for clean drinking water and toilet facilities compliant with applicable legislation.
3. The Contractor ensures that all safety notices, statutory warning signs, and directional indicators are installed and maintained in areas visible to all Site personnel and visitors.
4. Emergency equipment such as fire extinguishers must be available and regularly inspected. Extinguishers must be appropriately placed based on the risk classification of the activity or substance in the area.
5. All Site personnel must receive Site-specific safety induction and must comply with personal protective equipment (PPE) requirements, including but not limited to:
    - Hard hats
    - Safety boots
    - Flame-retardant overall (pants and jacket)
    - Eye and hearing protection (where applicable)
    - Respiratory protection and harnesses for working at heights (as required)
6. The Contractor is responsible for maintaining health and hygiene standards in all Site accommodation and facilities. This includes regular cleaning, waste management, pest control, and ensuring a safe and healthy working environment.
7. In addition to the above, the Contractor's Health and Safety Officer (CHSO) ensures that:
    a. Daily inspections of health and safety facilities are conducted.
    b. All incidents are reported and recorded in accordance with legislative and Employer requirements.
    c. Relevant safety documentation (e.g. risk assessments, method statements, fall protection plans) is reviewed, signed, and filed as part of the SHE File.
8. The Employer reserves the right to audit the Contractor's health and safety facilities and processes at any time and may instruct immediate corrective actions where deficiencies are identified.

5.1.5 Environmental controls, fauna & flora, dealing with objects of historical interest

The *Contractor* complies with all applicable environmental legislation, standards, and Eskom's environmental management procedures throughout the execution of the Works. Particular attention must be paid to the following:

1. The Contractor prevents pollution of the environment, including air, water, and land, and avoids the creation of nuisance conditions such as noise, dust, and visual intrusion. Waste materials generated during the Works, including coatings, packaging, and construction debris, are to be managed, stored, and disposed of in accordance with the Employer's environmental guidelines and the requirements of relevant legislation. Burning or burying of waste on Site is strictly prohibited.
2. The Contractor ensures that no harm, disturbance, or removal occurs to local fauna and flora. No indigenous plants, animals, or trees may be removed, disturbed, or damaged without written approval from the Project Manager and the Environmental Officer. Any accidental disturbance must be reported immediately to the Project Manager.
3. All potentially hazardous materials (e.g. solvents, paints, coatings, oils, fuels) used in the Works must be handled in accordance with approved safety and environmental procedures. The Contractor provides and maintains appropriate storage facilities with bunding to prevent soil or groundwater contamination.
4. Should the Contractor encounter any objects of historical, archaeological, paleontological, or cultural interest during execution of the Works, work in that area must immediately cease. The Contractor must secure the area and notify the Project Manager and Environmental Officer without delay. No item must be removed, altered, or interfered with until formal instruction is given.
5. Upon Completion of the Works, the Contractor restores all working areas to their original or agreed-upon state to the satisfaction of the Project Manager and Environmental Officer. Temporary construction areas, storage zones, and laydown areas must be cleaned and all debris removed unless otherwise agreed.
6. The Contractor submits an Environmental Management Plan (EMP) or relevant method statements addressing the above items prior to commencement of work. The Project Manager must accept these. Any updates or non-conformances during the Works must be logged and rectified in accordance with Eskom's environmental procedures.

5.1.6 Title to materials from demolition and excavation

1. The Contractor does not have title to any materials arising from demolition or excavation Works unless expressly stated otherwise in this Works Information.
2. All materials, equipment, scrap metal (e.g. steel, copper, aluminium), and debris removed during the execution of the Works remain the property of the Employer.
3. The Contractor will:
    - Handle, store, and secure such materials appropriately during demolition or excavation;
    - Transport materials to a designated laydown or salvage area on Site as directed by the *Project Manager*;
    - Not dispose of or remove any such materials from Site without the written instruction of the *Project Manager*.

4. Where the Employer identifies specific items for reuse, refurbishment, or disposal through a third party, the Contractor must ensure traceability, recordkeeping, and controlled handover of such materials.
5. Any valuable or hazardous materials uncovered during demolition or excavation (e.g. cables, tanks, oils, or legacy components) must be brought to the immediate attention of the Project Manager for instruction.

5.1.7 Cooperating with and obtaining acceptance of Others

1. The Contractor cooperates with Others as identified by the Employer and facilitates safe and effective coordination of activities within shared or adjacent working areas.
2. "Others" may include, but are not limited to:
    - Eskom operational staff and plant maintenance teams,
    - Eskom-appointed consultants, specialists, or *Contractor*s performing parallel Works,
    - Regulatory inspectors, service providers, and statutory authorities,
    - Environmental officers or safety auditors acting on behalf of the *Employer*.
3. The Contractor must:
    - Attend daily or weekly coordination meetings as scheduled by the *Project Manager*;
    - Liaise with Others in relation to access, interface scheduling, shared use of facilities, or operational restrictions;
    - Submit method statements and interface risk assessments where work overlaps with or affects Others.
4. Where acceptance or approvals are required from statutory bodies (e.g., environmental regulators, heritage authorities, building control), the Contractor must obtain such acceptance in accordance with the Accepted Programme, unless otherwise instructed by the Employer. The Contractor must provide copies of approvals or permits to the Project Manager upon receipt.
5. The Contractor must not hinder or delay the work of Others and must report any conflict or obstruction to the Project Manager immediately for resolution.
6. No changes to work sequencing, access arrangements, or area occupancy that may impact Others must be made without prior consultation and acceptance by the Project Manager.

5.1.8 Publicity and progress photographs

1. The Contractor must not issue any media releases, engage with the press, publish photographs, or communicate project-related information via social media, websites, or marketing material without the prior written approval of the Employer.
2. All signage, banners, and branding to be installed by the Contractor within the Site boundaries must be pre-approved by the Project Manager. Unauthorised advertising is not permitted.
3. The Contractor must take digital progress photographs at key stages of the Works, as instructed by the Project Manager. As a minimum, photographs must be:
    - Dated and geo-referenced (where applicable),
    - Categorised by location, activity, and plant area,
    - Submitted monthly or upon request in electronic format.

4. The Employer retains the right to use all submitted photographic material for internal reporting, audit, compliance, or publicity purposes.
5. A photographic record of above-ground and difficult-to-access work areas (e.g. roofs, stacks, enclosures) must form part of the project Quality Data Pack submitted at Completion.
6. The use of drones or aerial photography is prohibited unless:
    - Approved in writing by the Project Manager,
    - Operated by a certified pilot holding valid aviation authority approvals,
    - Compliant with all Employer safety and security protocols.

5.1.9 Contractor's Equipment

1. The Contractor keeps records of all equipment, whether owned or hired, brought onto and removed from the Site. These records must:
    - Include equipment description, serial numbers, ownership details, and date of entry/exit;
    - Be updated regularly and shared with Site security.
    - The document is available for inspection by the Project Manager and Others at any time.
2. For this Contract, temporary Works include all Contractor-supplied infrastructure, services, and facilities necessary to Provide the Works. This includes, but is not limited to:
    - Site offices, stores, and welfare units;
    - Temporary water, sewer, and electrical connections;
    - On-site laboratories, testing bays, fabrication or welding areas;
    - Scaffolding, hoardings, and laydown areas.
3. All temporary Works must be:
    - Maintained in a safe and serviceable condition throughout the Works;
    - Decommissioned and removed from Site upon Completion;
    - The surrounding area is restored to its original or agreed-upon condition, to the satisfaction of the Project Manager.
4. Prior to the commencement of any work involving Contractor's Equipment or temporary Works, the Contractor must submit relevant method statements for the acceptance of the Project Manager. These must detail safety considerations, access arrangements, lifting or rigging plans, and interaction with existing infrastructure.
5. All associated costs for the provision, operation, maintenance, and removal of Contractor's Equipment and temporary Works must be borne by the Contractor.
6. The Contractor complies at all times with the Employer's safety procedures, site access protocols, and requirements for work within operational areas.

5.1.10 Equipment provided by the Employer

1. The Employer does not provide any tools, construction equipment, temporary Works, or machinery for the execution of the Works unless explicitly stated elsewhere in the Contract or this Works Information.
2. If any fixed plant, lifting points, or built-in structural features of the existing facility are to be used by the Contractor during the execution of the Works (e.g. for rigging or support), this must be:
    - Pre-approved in writing by the Project Manager;

- Assessed for load capacity and safety suitability by the Contractor;
- Used strictly in accordance with the method statements and safety requirements accepted by the Project Manager.

3. The Contractor requests in writing any access to Employer infrastructure (e.g. utility connections, existing platforms) at least five (5) working days in advance and must not proceed until written acceptance is granted.
4. Any damage to Employer-provided or Employer-owned equipment resulting from misuse or unauthorised handling by the Contractor is repaired or replaced at the Contractor's cost.
5. The Contractor remains fully responsible for supplying all other equipment necessary for executing the Works.

5.1.11 Site services and facilities

1. The Contractor is responsible for providing all services and facilities required to carry out and complete the Works, except where explicitly stated otherwise in this Works Information.
2. The Employer will make available electrical power points at agreed locations, subject to the following conditions:
   - All connections must be pre-arranged and approved by the Project Manager.
   - A 3-phase power supply is available upon request.
   - The Contractor supplies all other required electrical equipment, including extension leads, distribution boards, and adaptors.
3. The Contractor must:
   - Make independent arrangements for water, waste disposal, telecommunications, ablutions, fire extinguishers, and lighting unless specifically provided for elsewhere;
   - Supply, install, maintain, and remove all temporary construction services and utility connections necessary to execute the Works.
4. Where the Contractor intends to rig or remove equipment using existing plant lifting points, advice must first be sought from the Employer. The Contractor remains fully responsible for:
   - Verifying the suitability of lifting points;
   - All rigging, hoisting, and removal operations;
   - The condition and safe handling of the equipment during dismantling, repair, and reinstatement.
5. The Contractor must ensure that none of its temporary services or activities obstruct or interfere with the operation of the Employer's plant or access routes.

5.1.12 Facilities provided by the Contractor

1. The Contractor provides all necessary facilities to support execution of the Works, including but not limited to:
   - Site accommodation for Contractor's personnel;
   - A dedicated Workshop area, including a welding bay and fabrication space;
   - Storage areas for Equipment, Plant and Materials;
   - Vehicles, office equipment, tools, and temporary medical facilities.
2. All Contractor facilities must be:

- Installed within the boundaries of the designated site area provided by the Employer;
- Positioned so as not to interfere with ongoing operations or access by Others;
- Maintained in a clean, safe, and serviceable condition;
- Removed from the Site at Completion of the Works unless otherwise agreed in writing by the Project Manager.

3. The Contractor must ensure all storage and laydown areas are:
   - Established only with the Project Manager's acceptance.
   - Properly secured and clearly demarcated.
   - Managed to prevent environmental contamination or safety hazards.
4. The Employer will allocate a defined area for use as a site camp and minor fabrication zone. The Contractor is to confirm location, boundaries, and access requirements prior to mobilisation.
5. The Contractor is responsible for arranging and maintaining their own:
   - Telephone and internet connectivity.
   - Fuel and power distribution within their facilities.
   - Waste removal, cleaning, and hygiene services.
6. All Contractor transport vehicles used to carry personnel must be roadworthy, legally compliant, and fitted with safety belts for all passengers, airbags, and an anti-lock braking system (ABS). Vehicles must be approved for passenger use under applicable legislation.
7. The Contractor is solely responsible for the security of all temporary Works, materials, equipment, personnel belongings, and partially completed sections of the Works. Adequate lighting, fencing, surveillance, or guards must be provided as necessary to safeguard the Site against theft, loss, or damage.
8. The Contractor is encouraged to visit the Site prior to commencing work to familiarise themselves with the terrain, access routes, infrastructure, and environmental conditions.

5.1.13 Existing premises, inspection of adjoining properties and checking work of Others

1. The Contractor must exercise extreme caution when working in areas containing existing infrastructure, including but not limited to:
   - Water and sewer lines, electrical cables, instrumentation wiring, motors, control panels, structural supports, and operational systems.
2. Prior to commencing any work in an area, the Contractor must:
   - Liaise with the Project Manager to identify and confirm the presence and condition of any existing services or equipment;
   - Conduct a joint inspection with the Project Manager to record and document existing conditions.
   - Clearly mark and protect services and interfaces to prevent accidental damage.
   - Submit revised sequencing or access plans for acceptance if deviating from the planned work area.
3. Daily, the Contractor must:
   - Notify the Project Manager of the intended work area and receive clearance to proceed.

- Ensure that all service protection measures are implemented and visually verified before starting work.
- Coordinate closely with the Employer to address unexpected discoveries of infrastructure.

4. The Contractor must not interfere with or assume the functionality of any existing system or the work of Others unless specifically instructed by the Project Manager.
5. The Contractor remains fully responsible for:
   - The protection of all known and unknown existing services within or adjacent to the Site;
   - Any damage caused due to negligence, poor planning, or lack of proper inspection;
   - Implementing immediate corrective action and bearing all costs for repair or reinstatement of affected assets.
6. Where the Contractor is required to connect to, modify, or verify the work of Others, this must be done only after inspection, agreement of the interface scope, and receipt of instructions from the Project Manager

5.1.14 Survey control and setting out of the Works

The *Contractor* is responsible for all setting out required to execute the Works in accordance with the Accepted Programme, *Employer's* work plan and the Works Information.

5.1.15 Excavations and associated water control

1. No excavation activities are anticipated within the scope of this contract. However, if any excavation activities are required during the execution of the Works, the Contractor will carry them out safely and in compliance with applicable legislation and the Employer's safety and environmental requirements.
2. The Contractor must:
   - Submit a method statement for any excavation activity prior to commencing work, including details of access, protection, compaction, and reinstatement.
   - Identify and protect all adjacent structures, services, or equipment potentially affected by ground disturbance;
   - Implement appropriate barricading, signage, and fall protection measures around open excavations or trenches.
   - Perform ground penetrating radar scans to identify all services within the excavation route, and protect the services against any damage.
3. The Contractor must provide effective water control for any excavations, including measures to prevent the accumulation of stormwater, seepage, or washout. This may include:
   - Temporary drainage channels;
   - Localised pumping;
   - Silt control barriers;
   - Protection against erosion or contamination
4. Reinstatement of excavated areas must be to the original or specified condition, compacted and finished as required by the Works Information, and to the satisfaction of the Project Manager.

5. The Contractor is responsible for all safety, structural, and environmental risks associated with excavations and must take all necessary precautions to prevent collapse, damage to adjacent facilities, or environmental harm.

5.1.16 Underground services, other existing services, cable and pipe trenches and covers

1. Within the vicinity of the Works, numerous existing services may be encountered, including but not limited to:
   - Water and sewer pipelines, electrical cables, compressed air lines, oil pipes, gas bottles, valves, gauges, and other live or dormant plant infrastructure.
2. The Contractor must take extreme care to avoid damage to any such services during execution of the Works. This includes services both known and unknown to the Employer or Contractor at the time of execution.
3. Prior to commencing any excavation, trenching, or surface-breaking activity, the Contractor must:
   - Liaise with the Project Manager and obtain clearance for the proposed work area.
   - Participate in a joint inspection with the Project Manager to identify and mark out the location of any known services.
4. Submit a method statement detailing how services will be located, exposed, protected, or worked around.
5. Where directed by the Project Manager, the Contractor must carefully expose known services using hand tools or non-destructive methods. All exposure and protection activities must be performed under Site supervision.
6. The Contractor must install physical barricading and warning signage around all open trenches, holes, or hazardous areas. Protective measures must meet occupational health and safety standards and prevent accidental entry or injury.
7. Any damage caused by the Contractor to services, whether previously identified or not, must be reported immediately to the Project Manager. The Employer will direct remedial action, and the Contractor must bear all associated costs.
8. No trench or pit must be left open overnight or unattended without adequate lighting, barricading, and signage. The Contractor is responsible for the safety of all personnel and plant in and around excavated or service-affected areas.

5.1.17 Control of noise, dust, water and waste

1. The Contractor must execute the Works in a manner that minimises noise, dust, water pollution, and waste generation. All activities must be planned and controlled to avoid nuisance or harm to personnel, plant operations, the public, and the environment.
2. The Contractor must manage all construction and domestic waste in accordance with the Employer's environmental procedures and applicable regulations. Waste must be segregated at source where practicable (e.g., general, hazardous, recyclable). Waste bins and containment areas must be clearly labelled and maintained in a clean and orderly condition. No on-site burning or uncontrolled disposal of waste is permitted.
3. The Contractor is responsible for:

- The removal and legal disposal of all waste generated by the Works;
- Keeping records of waste disposal, including volumes, classifications, and disposal sites;
- Restoring all areas affected by waste storage or transfer to their original or agreed condition upon Completion.

5.1.18 Sequences of construction or installation

1. The Accepted Programme must clearly outline and sequence the activities of all project work to be undertaken by the Contractor, as well as the other work covered by the contract that is being performed by the sub-contractors.
2. The following activities are to be included, as a minimum, in the programme. Please note the illustration only indicates a generic sequence. It's the Contractor's responsibility to ensure that all activities are covered in the sequence they will be executed, aligned to the duration as per the NEC:
   a. Preconstruction Documentation Submission:
      - Final SHE File Submission to the *Employer* for review and acceptance
      - Site Inspection with *Contractor, Employer* and Engineering as a pre-site establishment visit for coordination with Site, outage team/activities (if applicable).
      - Discuss the site establishment area, including tie-in to existing services, etc.
      - Visual inspection/survey/condition assessment of all corrosion-affected areas on the Unit Enclosure, Air intake structure, Exhaust stack structure, MCC, Busbar and Liquid fuel tanks and associated structures.
      - *Contractor* to provide a detailed method statement, QCP, and data sheets specific to the agreed Works to receive corrosion protection coating, repairs and waterproofing systems compiled by a technical specialist in coating and waterproofing systems. This includes the corrosion protection coating system for structural steel members, as per the Works Information.
      - *Contractor* submits the Quality Control Plan to the *Employer* for review and acceptance.
      - *Employer* to obtain Implementation Approval from the Employer's technical committee with the *Contractor's* method statement, QCP, and data sheet submission prior to construction activities.
   b. Construction Activities:
      - Site Establishment
      - Setting up the demarcation of Workshop area for minor fabrication and welding bay areas
      - Mark out all corroded and affected areas with the Employer
      - All activities must be split into the respective plant components or equipment, i.e., Unit Enclosure, Air Intake Structure, Exhaust Stack, Doors, Air vents/Box/Cable Covers.
      - Dismantling of existing components/equipment if required for repair work and reinstatement.
      - Corrosion coating protection preparation work,
      - Apply primer coat
      - Testing DFT
      - Apply the First coat

- Testing DFT
- Apply the Second/Final coat
- Testing DFT
- Waterproofing preparation, application, etc.
- Testing: Commissioning/ Testing Works

c. Post-Construction Documentation Submission:

- Data Books, Testing results from paint coating film thickness - Submission to the Employer for review and acceptance
- Signed off on QCP documentation.

3. The Contractor is to note further that all quality documents and Method Statements require a fourteen (14) calendar day review period.

5.1.19 Giving notice of work to be covered up

1. The Contractor will give the Project Manager at least Two (2) working days' notice before executing any Works that will be covered up or become inaccessible for inspection, testing, or verification.
2. Such Works include, but are not limited to:
   - Surface preparation prior to coating or waterproofing;
   - Application of corrosion protection systems before subsequent layers;
   - Repairs, modifications, or reinforcements to structural elements;
   - Areas to be backfilled, insulated, or concealed by permanent Works.
3. No work must be covered up or made inaccessible without prior inspection or formal release by the Project Manager, unless the Project Manager has confirmed in writing that inspection is not required.
4. If the Contractor fails to provide timely notice and proceeds to cover up the Works without inspection:
   - The Employer may instruct the Contractor to uncover or dismantle such Works at the Contractor's cost;
   - Any resulting delay must not be a Compensation Event.
5. Hold and witness points must be clearly identified in the Contractor's accepted Quality Control Plan (QCP) and referenced in relevant method statements submitted for approval.
6. The Contractor must maintain records of all inspections carried out prior to the Works being covered up and must include these in the final quality documentation handed over at Completion.

5.1.20 Hook-ups to existing Works

1. The Contractor must coordinate all tie-ins or hook-ups to existing plant, structures, services, or systems with the Project Manager. No such connections must be made without prior written instruction or acceptance.
2. Before any hook-up or interface work begins, the Contractor must:
   - Submit a method statement detailing the sequence, risks, and control measures;
   - Identify all interface points on drawings or isometric layouts.
   - Conduct a joint inspection with the Employer to confirm conditions and access.
   - Clearly define any requirements for isolations, outages, or permit-to-work systems.
3. All hook-up activities must be:

- Scheduled to avoid disruption to plant operations;
- Carried out in compliance with the Employer's safety procedures and interface protocols;
- Supervised by competent personnel and monitored for quality.

4. Where hook-ups involve mechanical, electrical, or control systems, the Contractor must:
   - Ensure compatibility with existing infrastructure;
   - Conduct verification testing and obtain Employer sign-off prior to final integration;
   - Restore all affected areas to operational condition and submit updated as-built records.
5. The Contractor will take full responsibility for any damage, operational impact, or delay resulting from unauthorised, unsafe, or incorrectly executed hook-ups.
6. All temporary services or bypasses implemented for hook-up purposes must be removed and the system restored to full function before Completion, unless otherwise agreed.

5.2 Completion, testing, commissioning and correction of Defects

5.2.1 Work to be done by the Completion Date

1. On or before the Completion Date, the Contractor must have done everything required to Provide the Works, including the physical execution, testing, and documentation, except for the specific Post-Completion items listed below.
2. The Project Manager will not certify Completion until:
   - All required Works (excluding listed items below) are complete and free from Defects that, in the Project Manager's opinion, would prevent the Employer from using the Works or prevent Others from carrying out their work;
   - All critical documentation required to demonstrate the functionality and compliance of the Works is submitted.
3. The following items may be completed after the Completion Date, but no later than the dates stated.

	Item of work	**To be completed by**
	As-built drawings of all Works	Within 15 working days after Completion
	Performance testing of the Works in use as specified in this Works Information and relevant national, international codes and Eskom standards. (i.e., data pack from DFT testing, paint specification data pack, etc.)	Date of completion.
	The *Contractor* has done everything required to Provide the Works, including the documentation as set out under section 5.8 and the site is cleared of all rubble and refuse due to the *Contractor* Providing the Works.	On or before the Completion Date

4. All remaining activities must be completed in accordance with the timescales stated above, failing which the Works will be considered incomplete, and the Project Manager will not issue a Completion certificate.

5.2.2 Use of the Works before Completion has been certified

1. The Works are to be executed, one generating unit at a time, while the remaining two units and their associated plant remain fully operational to meet the Power Station's ongoing requirements. The

refurbishment of Fuel Tanks A and B does not require any outage and may be carried out as per the Sectional Completion dates in the Contract Data.

2. The Contractor must:
   - Plan, sequence, and execute the Works to avoid disruption to the Employer's plant operations;
   - Coordinate with the Project Manager and Station Operations to confirm allowable working times, access arrangements, and any restrictions;
   - Take all necessary steps to prevent water ingress, dust, dirt, and debris from affecting plant areas and equipment not under refurbishment;
   - Ensure all existing plant and adjacent equipment are fully protected at all times during the Works.
3. Under no circumstances must the Contractor:
   - Obstruct or restrict access to operating units, control rooms, or essential infrastructure;
   - Interfere with equipment outside the designated unit under refurbishment without express instruction or acceptance.
4. All roads and access routes within the Site are in constant use by Eskom personnel and other Contractors. The Contractor must:
   - Ensure that unrestricted access is maintained for all road users at all times.
   - Plan vehicle and material movement in a way that prevents obstruction.
   - Provide clear signage, flag personnel, and traffic control measures as required.
5. Any failure by the Contractor to ensure access or avoid contamination that results in third-party claims, operational losses, or delays will result in such claims and associated costs being passed on to the Contractor.

5.2.3 Materials, facilities and samples for tests and inspections

1. The Contractor must make available, at their cost, all materials, samples, and facilities necessary to carry out the inspections and tests required under the Contract and the Works Information.
2. Where specified or required for acceptance, the Contractor must:
   - Prepare and provide representative samples of materials, coatings, or components for the Project Manager's acceptance;
   - Establish on-site facilities or designated areas for testing, mock-ups, or sample application (e.g., reference panels for corrosion protection systems);
   - Provide safe access, lighting, and protection of test areas to facilitate accurate inspection.
3. The Project Manager may carry out routine inspections of:
   - Works in progress;
   - Surface preparation and pre-coating activities;
   - Coating application processes;
   - Final finishes and reinstated components.
4. The Contractor must:
   - Allow unrestricted access to the Works at any time during working hours for the *Project Manager* and any authorised representative;

- Cooperate fully with requests for inspection, testing, or demonstration of compliance with the Works Information;
- Maintain records of all tests performed, including material certificates, test results, and calibration records, and include these in the final Data Pack at Completion.

5. The Contractor does not delay in providing the required samples, access, or facilities for inspection.

5.2.4 Commissioning

1. The nature of the Works under this Contract does not require commissioning in the traditional sense (e.g. energisation, functional testing of integrated systems), but does require quality-based verification and performance validation of the applied corrosion protection and waterproofing systems.
2. The Contractor must ensure that all inspection, testing, and verification activities required to demonstrate successful Completion of the Works are conducted in accordance with:
   a) The accepted Quality Control Plans (QCPs);
   b) Manufacturer specifications and application procedures;
   c) Applicable Eskom standards and national or international codes.
   d) Commissioning-related responsibilities of the Contractor include:
      i. Confirming that all coatings, repairs, and waterproofing systems have been applied and cured according to specification;
      ii. Submitting dry film thickness (DFT) records for each layer of coating per surface/component;
      iii. Submitting any applicable performance or adhesion test results (e.g. cross-hatch or pull-off testing) where required by the Works Information;
      iv. Conducting final visual inspections with the *Employer* and *Project Manager*;
      v. Ensuring that any outstanding punch list items or Defects are rectified prior to submission of Completion documentation.

1) The *Employer* may request manufacturer or OEM representatives to witness and sign off on certain phases of the work, particularly with proprietary products (e.g. Stopaq or similar systems). The *Contractor* must coordinate such inspections and include them in the Accepted Programme.

2) No part of the Works must be deemed complete until all quality documentation, inspections, and performance confirmations are accepted by the *Project Manager*

5.2.5 Start-up procedures required to put the Works into operation

No start-up or operational commissioning procedures are required under the scope of this Contract.

5.2.6 Completion and handover procedures

1) Completion and handover of the Works or a section of the Works is administered in accordance with the conditions of contract and this Works Information. Nothing in this section constitutes or implies Take Over. Any Take Over is administered in accordance with Clause 35
2) The *Employer* will take over the Works or a section of the Works when:
   a) The Contractor has completed all work required to Provide the Works as defined in the Works Information;

b) The Works are free of Defects that, in the opinion of the Project Manager, would prevent the Employer from safely using them or would obstruct Others from doing their work;
c) All Completion documentation has been submitted, reviewed, and accepted by the Project Manager.

3) The *Contractor* must notify the *Project Manager* in writing when the Works or a defined section are ready for take over. The notice must be accompanied by:
   a) A request for inspection or punch list walkdown;
   b) A draft of the Completion certificate or checklist, as applicable;
   c) A list of any minor outstanding items (snag list), if agreed in advance, and their proposed Completion Dates.

4) No Completion certificate will be issued unless the following are submitted and accepted:
   a) Final as-built drawings;
   b) Signed-off Quality Control Plans (QCPs);
   c) Test and inspection results, including DFT readings and coating/waterproofing records;
   d) Manufacturer guarantees and applicator warranties as required under Section 3.3.1 Contractor responsibility and guarantee.
   e) Confirmation of site clean-up and removal of all Contractor's Equipment, temporary Works, and waste;
   f) Any other documentation required as stated in the Work Information and/or instructed by the Project Manager.

5) Where sectional Completion or handover is agreed (e.g. unit-by-unit), the procedures above apply individually to each section.

6) The *Contractor* remains responsible for correcting any Defects notified before the Defects date, even after take-over of the Works

5.2.7 Access given by the Employer for the correction of Defects

1) The *Contractor* will:
   - Be granted access to the Site or relevant part of the Works at times agreed with the *Project Manager*;
   - Correct notified Defects by the dates stated in the Defect notification or as otherwise instructed;
   - Coordinate all *defect correction* activities to avoid disruption to the *Employer*'s operations and the work of Others.

2) Any equipment, facilities, or services required by the *Contractor* during the *defect correction period* must be provided by the *Contractor* unless otherwise agreed.

3) All safety, environmental, and site conduct requirements applicable during the main Works will continue to apply during the Defects Correction Period.

4) Access for *defect correction* does not relieve the *Contractor* from any other contractual obligation, including meeting Defect resolution timeframes and quality standards.

5.2.8 Performance tests after Completion

No performance tests are required after Completion under the scope of this contract. All quality and compliance requirements are to be verified prior to Completion through inspections, documented tests, and submission of final quality records as specified in the Works Information.

5.2.9 Training and technology transfer

1) The *Contractor* must include, as part of the accepted method statement, a section addressing the ongoing maintenance and repair procedures for the corrosion protection coating system and the waterproofing system applied during the Works.

2) This section must:
   - Identify common forms of degradation or damage over time.
   - Provide touch-up or localised repair procedures suitable for use by *Employer* personnel;
   - Include details of required surface preparation, compatible repair products, and application techniques;
   - State the frequency and method of future condition assessments, where relevant.

5.2.10 Operational maintenance after Completion

1) The Works under this Contract do not require routine operational maintenance by the *Contractor* after Completion. However, the *Contractor* must ensure that all completed Works:
   - Are delivered in a condition that minimises the need for early maintenance;
   - Include guidance for future maintenance where applicable, particularly in relation to corrosion protection and waterproofing systems.

2) As part of the Completion documentation, the *Contractor* must provide:
   - Manufacturer-recommended maintenance guidelines for applied coatings and waterproofing systems;
   - A list of materials and procedures for touch-up or localised repairs;
   - Applicable product warranties and technical support contacts.

3) The *Employer* will assume responsibility for operational maintenance from the date of Completion, based on the information and warranties provided by the *Contractor*.

6 Plant and Materials standards and workmanship

6.1 Investigation, survey and Site clearance

1) Prior to commencing any part of the Works, the *Contractor* carries out a comprehensive investigation and condition survey of all existing facilities and areas within or adjacent to the Site that may be affected by the execution of the Works.

2) The purpose of this investigation is to:
   - Identify any constraints, hazards, or risks associated with the surrounding environment.
   - Confirm access, protection, and clearance requirements;
   - Avoid accidental damage to *Employer* assets, buried services, or structures.

3) The *Contractor* must:
   - Request access to specific areas through the *Project Manager*, with sufficient notice to allow for coordination;
   - Protect all identified and discovered plant, services, and equipment during the Works;
   - Immediately notify the *Project Manager* of any previously undocumented services or obstructions encountered on Site;
   - Dispose of all waste and debris generated from the Works, directly or indirectly, in accordance with the *Employer*'s environmental requirements and legal regulations.

4) The cost of any repairs due to negligent damage to the plant or services caused during the Works must be borne by the *Contractor.*

6.2 Building Works

There are no building Works required under the scope of this contract.

6.3 Civil engineering and structural Works

All civil and structural Works comply with the latest revision of the applicable national and international standards as referenced in this Works Information. These include, but are not limited to:

Reference Number	Title
240-106365693	Standard for the External Corrosion Protection of Plant, Equipment and Associated Piping with Coatings
240-101712128	Standard for the Internal Corrosion Protection of Water Systems, Chemical Tanks and Vessels and Associated Piping with Linings
ASTM D4414	Standard practice for measurement of wet film DFT by notch gauges
ASTM D4541	Standard Method for Pull-off Strength of Coatings using Portable Adhesion Testers
ASTM D5162	Standard Practice for Discontinuity (Holiday) Testing of Nonconductive Protective Coating on Metallic Substrates
ASTM E376	Measuring coating DFT by magnetic field or eddy current electromagnetic test Methods
ASTM F21	Standard Test Method for Hydrophobic Surface Films by the Atomiser Test

Reference Number	Title
ISO 8501-1	Preparation of steel substrates before application of paints and related products – Visual assessment of surface cleanliness – Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings
ISO 8502-3	Preparation of steel substrates before application of paint and related products – Test for the assessment of surface cleanliness – Part 3: Assessment of dust on steel surfaces prepared for painting (pressure sensitive tape method)
ISO 8502-6	Preparation of steel substrates before application of paint and related products – Test for the assessment of surface cleanliness – Part 6: Extraction of soluble contaminants for analysis – The Bresle method
ISO 8503-4	Preparation of steel substrates before application of paint and related products – Surface roughness characteristics of blast-cleaned steel substrates – Part 4: Method for the calibration of ISO surface profile comparators and for the determination of surface profile – Stylus instrument procedure. (May be used as an alternative to SANS 5772)
ISO 12944-3	Paint and varnishes – Corrosion protection of steel structures by protective paint systems. Part 3: Design considerations
ISO 9223	Corrosion of metal and alloys – Corrosivity of atmospheres – Classification
SANS 10064	The preparation of steel surfaces for coating
SANS / ISO 2808	Paints and Varnishes: Determination of film DFTs (Can be used as an alternative to ASTM E376)
SANS 5770	Preparation of steel substrates before the application of paints and related products – Test for the assessment of cleanliness of blast-cleaned steel surface – Freedom from certain soluble salts
SANS 5772	Preparation of steel substrates before the application of paints and related products – Surface roughness characteristics of blast-cleaned steel surfaces – Profile of blast-cleaned surfaces determined by a micrometre profile gauge (Can be used as an alternative to ISO 8503-4)
SANS 10400-D	The application of the National Building Regulations Part D: Public safety
SANS 10400-F	The application of the National Building Regulations Part F: Site operations
SIS 055900	Swedish Code of Practice - Pictorial surface preparation standard for painted steel surfaces. (Can be used as an alternative to ISO 8501 – 1)
Note: Where there is a conflict between referenced standards or specifications, the more stringent requirement must apply, unless otherwise instructed or accepted by the *Project Manager*	

6.4 Electrical & mechanical engineering Works

1) The *Contractor* will take full responsibility for safeguarding all electrical and mechanical equipment located in or adjacent to the areas where the Works are being executed.

2) The *Employer* will assist the *Contractor* in identifying all sensitive and critical equipment requiring protection. This may include, but is not limited to:
   - Live switchgear and control panels;
   - Motors and MCCs;
   - Cable trays, junction boxes, instrumentation, and signal cabling;
   - Ventilation and exhaust fans;
   - Fuel handling and fire protection systems.

3) No Works may commence in the affected areas until the *Contractor* has:
   - Installed all necessary protective measures (e.g. covers, barriers, insulation, shielding);
   - Received acceptance from the *Project Manager* confirming that protection is adequate.

4) The *Contractor* must:
   - Maintain the integrity of protective measures for the whole duration of the Works.
   - Regularly inspect and adjust these protections as the Works progress.
   - Avoid exposure of sensitive equipment to water, dust, vibration, or mechanical impact.
   - Immediately report and rectify any accidental damage or exposure at the *Contractor*'s cost.

5) Any work that compromises the safety or operability of electrical or mechanical equipment without prior approval will be stopped and rectified at the *Contractor*'s expense and may result in a formal notification under the contract.

6.5 Process control and IT Works.

There are no process control or IT-related Works included within the scope of this Contract. However, the *Contractor* must ensure that all adjacent process control systems, cabling, instrumentation, and IT-related infrastructure are not disturbed or interfered with during the execution of the Works.

7 List of drawings

7.1 Drawings issued by the *Employer*

This section lists the drawings issued by the *Employer* at or before the Contract Date, which form part of the Works Information and may also contain Site Information. These drawings are provided to assist the *Contractor* in planning and executing the Works.

Note: The *Contractor* must sign a Non-Disclosure Agreement (NDA) prior to receiving any *Employer*-issued drawings. Drawings are issued for use strictly in relation to this contract only and may not be shared or reproduced outside of authorised project stakeholders.

Drawing number	Revision	Title
0.49/10100	**5**	**Acacia Power Station Sets 1-3 Plant Layout**
0.49/10022	**3**	**General Arrangement Acacia Station**
0.49/10052	**0**	**Bus Duct**
0.49/10051-3	**3**	**Enclosure, Generator Assembly & Details**
0.49/10051-1	**3**	**Enclosure, Generator Assembly & Details**
0.49/10050-1	**2**	**Dimensional Layout, Enclosure Twin Pack**
0.49/10094-1	**1**	**Twin Pack Enclosure, Assembly & Installation**

PART C4: SITE INFORMATION

1 General description

Acacia Power Station is situated at the southern end of Eskom's National Grid near Cape Town in the Western Cape (Coordinates 33°52'59.43"S 18°32'08.32"E).

It operates predominantly in synchronous condenser mode to regulate voltage and also provides a dedicated off-site electrical supply to Koeberg Nuclear Power Station, as required by the National Nuclear Regulator (NNR) licensing conditions.



Figure 1: Layout of Acacia Power Station

The station comprises three modular gas turbine generating units, commissioned in 1976. Each unit produces a base load output of 57.1 MW and a peak output of 60.8 MW under design atmospheric conditions, giving a total installed capacity of 171 MW.

The modular industrial gas turbines are aeroderivative designs capable of operating on both oil and gas fuels. Their modular configuration allows faster maintenance and higher plant availability compared to conventional gas turbine stations.

The Site includes, but is not limited to:

- Generator and turbine enclosures;
- Fuel tank enclosures (Tanks A and B);
- Air intake and exhaust structures;
- Control room and MCC enclosures; and

- Associated civil and structural foundations and accessways.

The surrounding area includes other Eskom facilities and operational infrastructure. The Works will be executed within the secure boundary of the Power Station, under controlled access

2 Existing buildings, structures, and plant & machinery on the Site

The Works involve refurbishment of existing enclosures and interfaces with operational generation units, fuel systems, and auxiliary structures. The Contractor shall take note of the following existing conditions:

- Steel and cladded enclosures forming weatherproof housings for the GTs, generators, and auxiliaries.
- Existing civil plinths and foundations supporting the enclosures.
- Adjacent operating plant and electrical systems to remain live during the Works.
- Limited laydown and storage areas due to the operational nature of the Site.

All interfacing points with existing structures and systems shall be verified on Site before construction. “As-built” and reference drawings of the original enclosures and fuel tank structures are available from the Employer upon request through the Project Manager

3 Subsoil information

The Acacia site is located on coastal sedimentary ground conditions typical of the Cape Flats region, comprising variable fill and underlying sandy soils with shallow calcareous layers. Existing foundation structures appear stable with no significant evidence of differential settlement.

No deep excavation is envisaged for these Works. Where localised excavations or anchor installations are required for temporary Works (e.g., scaffolding or lifting equipment), the Contractor shall assess bearing capacity and stability to ensure safety.

No new geotechnical investigation is currently planned by the Employer. Should the Contractor require further information, this shall be requested in writing and, if approved, executed at the Contractor’s cost unless otherwise instructed.

4 Hidden services

The Site contains underground electrical cables, earthing grids, communication lines, and limited service pipework (stormwater and fuel drainage systems). Accurate as-built records for certain legacy services may be incomplete due to the age of the installation.

Before any excavation, the Contractor shall:

- Obtain current service layouts from the Employer’s Engineering and Maintenance Department.

- Confirm service locations by means of site scanning and trial holes under the Project Manager's supervision; and
- Assume the presence of unidentified buried services and proceed with due caution.

Damage to hidden services due to negligence shall be repaired at the Contractor's cost and to the satisfaction of the Employer.