Eskom	Specification	Generation

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1. INTRODUCTION

Duvha Power Station Unit 3 boiler house has experienced an over-pressurization in 2014 and the station initiated the demolition project which was conducted to remove the damaged secondary steel structure and damaged equipment. During demolition some of the sheeting and side cladding was removed to reduce the impact of wind load on the de-loaded boiler house structure. Currently the unit remains with some openings that are unappealing which resulted to the station preparing this scope of works to close the openings and fully sheet the unit similar to the adjacent units.

The purpose of this Technical Specification is to define the *Contractor's* scope for the procurement/ supply, fabrication, shop detailing, corrosion protection (as specified herein prior to delivery), delivery, off-loading at the Duvha Power Station site, storage, erection, final painting and finishing complete in every detail all the necessary cladding and sheeting for the Duvha Unit 3 boiler house structure, all in accordance with the *Employer's* drawings.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the technical specification required for the scope of the works. The scope covers replacement of the unit 3 boiler house missing/damaged sheeting,flashings and side steel cladding including the temporary works required for erection access via rope access, lifelines etc. at Duvha Power Station. The scope of work to be delivered by the *Contractor* is defined in this document.

The *Contractor* provides all plant, equipment, materials, services, temporary works / rope access, lifelines (including design and certification of all temporary works) and labour and executes all work deemed necessary in order to complete the *works*.

The *Contractor* provides the complete works which is fully functional in all aspects and includes all required accessories and auxiliaries, except where such are provided by the *Employer*.

The *Contractor* is responsible for ensuring that the works comply with all the requirements of this Technical Specification, and all other applicable codes, standards and statutory requirements stated herein.

2.1.1 Purpose

The purpose of this document is to describe in detail the scope for replacement of missing sheeting, flashings and side steel cladding at the unit 3 boiler house in Duvha Power Station prescribed herein to be delivered by an appointed *Contractor*.

2.1.2 Applicability

This document applies to Duvha Power Station only.

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2.2 NORMATIVE/INFORMATIVE REFERENCES

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

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.
[2] ENVP0005 - Duvha Power Station Waste Management procedure
[3] 240-107981296, Constructability Assessment Guideline240-99527377 Inspection Manual for Civil Work at Eskom Power Stations
[4] 240-53114186, Project/ Plant Specific Technical Document and Records Management Procedure
[5] 240-86973501, Engineering Drawing Standard
[6] National Environmental Management Act, 1998 (Act 107 of 1998)
[7] National Environmental Management Waste Act, 2008 (Act 59 of 2008)
[8] SANS 2001, Construction Works (All applicable parts)
[9] 32-727 - Eskom Safety, Health, Environment and Quality (SHEQ) Policy
[10] Occupational Health and Safety Act No. 85 of 1993
[11] SANS 1200 AH - General (structural)
[12] SANS 1200 H - Structural Steelwork
[13] SANS 1200 HB - Cladding and Sheeting
[14] SANS 1200 HC - Corrosion protection of Structural Steel.
[15] SANS 1273 – Fasteners for roof and wall coverings in the form of sheeting
[16] SANS 10237 Roof and Side Cladding
[17] SANS 0162 – The structural use of steel
[18] SANS / ISO 12944 — Corrosion protection of steel surfaces by protective paintsystems. Parts 4 and 5
[19] SANS 121 / ISO 1461 - Hot dip galvanized coatings on fabricated iron and steelarticles - Specifications and test methods
[20] SABS 763 - Hot dip (galvanized) zinc coatings (other than on continuously zinc coated sheet and wire).
[21] SANS 14713 / ISO 14713 - Protection against corrosion of iron and steel instructures – Zinc and aluminium coatings – Guidelines.
[22] ISO 1460 - Metallic coatings — Hot dip galvanized coatings on ferrous materials —Gravimetric determination of the mass per unit area.
[23] The Construction Regulations 2014
[24] Occupational Health and Safety Act (No.85 of 1993)
[25] Generation Plant Safety Regulations 36-681
[26] Supplier Contract Quality Requirements Specification (QM58)
[27] Standard for welding requirements on Eskom Plant (240-106628253)
[28] 0.57/61403 / 064126-Z4630-211

These documents are indispensable for the application of this document, i.e. documents to be used together with this document.

2.2.2 Informative

[29] 474-58 (Rev1): Document and Records Management
[30] 240-53113685, Design Review Procedure
[31] 240-53113953, Manage Engineering Accountability Procedure
[32] 240-53114002, Engineering Change Management Procedure
[33] 240-53114026, Project Engineering Change Management Procedure
[34] 240-56364545, Structural Design and Engineering Standard
[35] 240-76992014, Project/Plant Specific Technical Documents and Records Management Work Instruction

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2.3 DEFINITIONS

2.3.1 Disclosure Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
CoC	Certificate of Compliance
ISO	International Organisation of Standards
OHS	Occupational Health and Safety
SANS	South African National Standards
SHEQ	Safety, Health, Environmental & Quality
SE	System Engineer
PSR	Plant Safety Regulations
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Plan
TDS	Technical Data Sheet

2.5 ROLES AND RESPONSIBILITIES

Power Station: It is the role of the Power Station to follow the necessary processes to appoint the *Contractor(s)* for the works stated herein.

System Engineer (SE): It is the role of the System Engineer to ensure that this scope is executed accordingly and ensure all the work is done as per specification.

Project Manager (PM): It is the role of the *Project Manager* is to manage the project and ensure all works are being executed with accordance to the contract agreement between the client and the appointed contractor.

Contractor: It is the role of the *Contractor* to conduct the works in accordance with the details provided in this document and adhere to all the terms in the contract.

2.6 REQUIRED CRITERIA FOR CONTRACTOR

Not Applicable

2.7 RELATED/SUPPORTING DOCUMENTS

Not Applicable

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3. SCOPE OF WORKS

3.1 DESCRIPTION OF THE *WORKS*

The *Contractor* is responsible for rope access, installation/replacement of damaged or missing sheeting, flashings and side cladding, works as detailed herein.

The *Contractor* provides all plant, equipment, materials, services, temporary works / rope access and lifelines (including design and certification of all temporary works) and labour and executes all work deemed necessary in order to complete the *works*.

The *Contractor* provides the complete works which is fully functional in all aspects and includes all required accessories and auxiliaries, except where such are provided by the *Employer*.

The *Contractor* is responsible for ensuring that the works comply with all the requirements of this Technical Specification, and all other applicable codes, standards and statutory requirements stated herein.

The scope of supply covers the replacement of Unit 3 boiler house structure sheeting which had been removed, damaged and/or missing.

The scope is for the procurement/ supply, fabrication, shop detailing, corrosion protection (as specified herein prior to delivery), testing, delivery, off-loading and storage at the Power Station site, erection, final painting and finishing complete in every detail all the necessary cladding, sheeting and ancillary items for the sheeting of the Unit 3 boiler house, all in accordance with the *Employer's* drawings.

Included in the scope are the supply of the following:

- boiler house damaged cladding and sheeting, this includes areas of sheeting/cladding to that has been removed by the *Contractor* due to access requirements or areas that have been damaged post-demolition. The *Contractor* is required to verify these areas prior to commencement of the works,

Rope access, temporary works and other equipment required for the manufacture and erection of the necessary sheeting and cladding also forms part of the scope of supply of the *Contractor*.

The *Contractor* constructs the *works* in accordance with the drawings and specification data provided in the sections to follow.

The *Contractor* notes that an *Employer* appointed Structural Engineer will be responsible for oversight/ technical assurance of the *works* in terms of Clause 6 (1) (g) and (h) of the Construction Regulations 2014, however the *Contractor* remains liable for the *works*.

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The *Contractor* shall take all necessary precautions that may be required to safeguard existing infrastructure and services including protection of all surface works. The area to beworked at or around is elevated and cause complex working space. All employees working in the project shall have working at height training or rope access training. Training certificates shall be produced by the *Contractor* any time when the client requests them.

These works are formally documented as part of method statements for the Employer's review and acceptance. Method statements shall be drafted in line with the scope defined herein to ensure that all Safety, Environmental and Quality regulations and standards are adhered to.

Only trained personnel are allowed to perform repair and replacement works of all infrastructure.

The *Contractor* takes note that review and acceptance of any document/ drawing/ design calculations by the *Project Manager* in no way relieves the *Contractor* of his liability for the works. The *Contractor* remains liable for all works conducted as per this document.

The *Contractor* is liable and fully accountable for the works and the constructability thereof.

The *Contractor* interacts with others through the *Project Manager*, to ensure seamless integration of the various works.

Records of training are maintained by the *Contractor's* Quality Control Department.

The *Contractor* is expected to perform the technical supervision during the construction of the works.

3.2 EMPLOYER'S DESIGN REQUIREMENTS

The Employer's requirements are detailed below as scope of work defined in section 4 below.

3.3 CONTRACTOR'S DESIGN

3.3.1 Temporary Works

The *Contractor* is responsible for the design of all temporary works required for the execution of the *works* and is mandated in terms of Construction Regulations 2014: Duties of Designer, 6(2) a — d, to fulfil the duties described therein for the temporary works designs done by the *Contractor*.

Temporary works includes, but is not limited to the following:

a) Scaffolding and all other temporary works required to execute the *works;*

The *Contractor* is responsible for the design of all temporary works required to execute the *works* safely. The *Contractor* is responsible for the appointment of a professionally registered structural engineer to perform all temporary works designs.

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The *Contractor* shall submit all temporary works design calculations to the *Employer*, for review by the *Employer's* Structural Engineer, in particular those relevant to slinging or hoisting off permanent structural members. This submission pack includes method statements, rigging studies and member verification calculations. The *Employer* will issue the static design model to the *Contractor* to allow for the analysis and design taking into consideration temporary construction loads whilst also considering the maximum allowable capacities of the existing structural elements. The *Employer* will issue the member forces for the applicable members, that the *Contractor* intends to rig off, for use in the *Contractor's* temporary works design. The calculations shall be presented in sufficient detail to provide the *Employer's* Structural Engineer with all loads and load points, on rigged off permanent structural steel members, to perform the necessary design reviews.

The *Contractor's* appointed ECSA professionally registered engineer:

i. Reviews and approves (by signature) the designs and drawings of all temporary works and additional supports and method statements produced by the *Contractor*; and

ii. Supervises, inspects and approves the *works* as per such.

All temporary works designs, where existing infrastructure are impacted by the *works*, are submitted to the *Project Manager* for review and acceptance, to prove that the existing infrastructure can withstand the induced load or proposed temporary works. The *Contractor* therefore submits all design calculations, in a design report which includes, but is not limited to, all inspection reports, survey data, design analysis models, assumptions, drawings/sketches, rigging studies etc.

4. CONSTRUCTION

The *Contractor* is responsible for the construction of the *works*, including all temporary works and design thereof, and all associated services in accordance with the specification.

The *Contractor* disposes of all construction waste at a licenced waste disposal site to be accepted by the *Project Manager*. The waste disposal site is selected to suit the classification of the materials to be disposed of. Certificates of disposal are required to be submitted to the *Employer*.

The works consists of replacement of the missing sheeting and cladding material of unit 3 boiler house as stipulated in the scope of works and project specifications. The works includes but is not limited to the following:

- Safety file approval
- Medical and safety inductions
- Arrangement and authorization of work permits
- Site establishment
- Arrangement for rope access
- Erection and dismantling of temporary works for rope access, lifelines and platforms
- Inspection, testing and reporting of the condition of the materials
- Storage of undamaged material for reuse to be provided by the *Contractor*.
- Arranging of refuge bins or to remove all construction debri's to a designated approved waste site.
- Removal of defective material and cleaning of work areas

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- Temporary dismantling and removal of materials to do repairs and to replace the materials after repairs was done.
- Replacement of the sheeting and cladding materials including flashings materials
- Technical supervision and monitoring
- Corrosion treatment on structural steel
- Cleaning of site
- Site de-establishment

4.1 CIVIL AND STRUCTURES SCOPE

4.1.1 Replacement of sheeting, cladding, and flashing

- Sheeting installation procedure shall be drafted and submitted to the project manager for reviews.
- All work for the repair or replacement of the damaged roof sheeting, flashings and side cladding shall be done in accordance with SANS 10237.

Work included herein is as follows:

- Dismantling and removal of damaged sheeting and cladding. Damaged sheeting shall be separated to the ones still in good conditions.
- Installation of missing and/or removed sheeting and cladding to fully sheet the unit 3 boiler house structure.
- Repair of damaged and rusted cladding and sheeting support structures materials.
- Replacement of damaged existing sheeting, cladding and flashing materials with new materials.
- Replacement or fixing of all loose roof, cladding and flashing fasteners.

New Material Specifications (refer to drawing [28]):

- Thickness of material = 0.8 mm thick
- Profile =Standard I.B.R., wide span or Nu-Rib profiles to match existing or flat sheets
- Finish = galvanised sheeting / Chromadek sheeting.
- Galvanised Zinc Coating = 275 Z
- Factory applied Chromadek paint system:
- Top surface - primer and final coat of a total dry film thickness of 40 microns
- Bottom surface - single backing coat of 8 microns
- Roof Slope = to be measured and confirmed on site

4.1.2 Sheeting and Cladding Accessories

- All cladding and roofing fasteners as follows shall conform to SANS 1273 and shall be able to withstand corrosively atmospheric conditions classified as C4 in accordance to ISO 9223:
    - 65mm long hex head top speed stainless steel self-drilled screws with 26mm stainless steel bonded washers to be used for roof main fasteners.
    - 25mm long hex head top speed stainless steel self-drilled screws with 19mm stainless steel bonded washers.
    - Sealant e.g. bitumen grommets or equally approved.
- All fasteners shall be mechanically plated zinc with a minimum coating of 40 microns.

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Installation:

- Installation shall be done in accordance with the supplier's specifications and original drawings.
- Where roof sheeting or cladding was removed the areas shall not be left opened and be fully covered with new sheeting or cladding at the end of the day.
- Plastic sheeting or approved equivalent protection shall be used to minimise the possibility of damage caused by the rain, etc.
- Roof sheeting must be laid in long lengths without end overlaps.
- The broad flutes must be turned up at the apex to form a dam, and turned down at the roof space and valley gutters to form a drip. Metal closers 0,8 mm thick galvanised, complete with *polyclosers* set in one run of silicone sealant, are required at apexes, ridges, side and head walls, etc.
- All holes for fasteners shall be drilled. Punching of holes and nailing of cladding and flashings will not be permitted. Cutting of cladding and lashings with an angle grinder may only be done by using a tungsten steel blade.
- The Contractor shall take all necessary measurements and dimensions on site prior to manufacturing and installation. Z275 galvanising spelter shall be used and the Contractor shall provide SABS certificates of compliance to the Engineer.
- Only stages 1 and 2 "white rust" on sheets will be permitted, provided that the white rust is successfully removed in accordance with the Hot Dip Galvanisers Association South Africa's accommodation. The Contractor shall provide a guarantee for the galvanised materials obtained from the manufacturer. In all cases the roof sheeting must be laid strictly in accordance with the manufacturer's specifications.

4.1.3 Flashings

All flashings shall be replaced with new sheeting in accordance to SANS 10237.

Materials:

- Thickness of material = 0.8 mm thick
- Finish = galvanised sheeting.
- Galvanised Zinc Coating = 275 Z
- Factory applied Chromadek paint system:
- Top surface - primer and final coat of a total dry film thickness of 40 microns
- Bottom surface - single backing coat of 8 microns

Flashing Accessories:

- All roofing fasteners as follows shall conform to SANS 1273 and shall be able to withstand corrosively atmospheric conditions classified as C4 in accordance to ISO 9223:
    - 65mm long hex head top speed stainless steel self-drilled screws with 26mm stainless steel bonded washers installed at 600 centres to be used for main fasteners.
    - 25mm long hex head top speed stainless steel self-drilled screws with 19mm stainless steel bonded washers.
    - Sealant e.g. bitumen grommets or equally approved.
- All fasteners shall be mechanically plated zinc with a minimum coating of 40 microns.

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Installation
Fixing

- Flashings laid at right angles to box-ribbed profiled sheeting shall be fixed to each alternate flute or at a maximum of 600 mm centres, whichever distance is the lesser. A gasket type fixing shall be used to fix flashings to roof sheeting. Flashings running parallel to the flutes shall be fixed at a minimum of 600 mm centres.

End laps
Flashings shall be fixed with a minimum end lap of 150 mm.

Testing
The Contractor shall on request from the Engineer provide proof of that the roof sheeting were tested in accordance to the load tests as specified in SANS 10237. Such load tests may be:

- Resistance to positive uniformly distributed load
- Resistance to negative uniformly distributed load (wind uplift)
- Resistance to point load

4.1.4 SANS 10120-HB: 1985, Cladding and Sheeting

The latest version on SANS 10120-HB: 1985 shall be complied with for the cladding and sheeting. Variations to standard specifications as per SANS 10120-HB: 1985 are as listed in the table below. The clause listed in the table below refers to the clause number in SANS 10120-HB and the table below must be read in conjunction with the code.

Where reference is made to Engineer in the code, it is deemed to refer to *Project Manager* in the context of this Technical Specification.

For project specific sheeting requirements, refer to:

General Notes drawing 064126-Z4630-211.

Clause	Specification data
10120 HB:5 - 3.1	**Construction**
3.1	**Methods of Construction**
3.1.1.2	*Installation Details*
	Add the following: The *Contractor* is solely responsible for ensuring that the materials and method of installation comply with the manufacturer's specifications. Any further modifications and additional details are reviewed and accepted in writing by the *Supervisor*.

5. SAFETY REQUIREMENTS

- *Contractor* Safety File must be pre-approved by Duvha Safety Department.
- *Contractor* employees must complete Duvha Safety Induction Course, before any work can be executed.

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- Risk assessment and Pre-job brief shall be conducted by *Contractor Supervisor* with all his employees. Copies shall be handed over to the client.
- No work shall be performed without a Permit to Work. Domestic installations are exempted.
- No work shall be performed without pre-arrangement with the *project manager*. No work on windy and/or rainy weather conditions.
- Special care must be taken regarding people that might occupy the office while the installations are done.
- Valid work at heights training and fall protection planner.
- Supervisors including all shifts with legal liability or OHS Act related courses, risk assessor and incident investigator.
- Any damage to the boiler house structure by the *Contractor* shall be repaired by the *Contractor* at own cost.
- All other spares, materials and safety equipment needed to do the work, shall be supplied by the *Contractor*.
- All required Personal protective equipment (PPE) must be worn all the time.
- All Eskom's and other safety rules must be adhered to all the time.
- No person other than workmen authorized by the roofing *contractor* shall be permitted access to an area on which the sheeting is being or has been installed, except as required for supervision, inspection and subsequent acceptance. Special care shall be exercised when long-length sheeting is being handled,particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting or incomplete section s shall be adequately secured against possible lifting by wind. All roofing and cladding operations shall be carried out in accordance with the conditions of the following, as relevant:
    - a) The Machinery and Occupational Safety Act, 1983 (Act 6 of 1983); and
    - b) The Mines and Works Act, 1956 (Act 27 of 1956), a s amended.

6. QUALITY REQUIREMENTS

No work shall commence before the approval of the QCP. The *Contractor* is expected to compile the QCP document and submit it to the *Employer* for review and approval. The *Contractor* is also expected to thoroughly go through the standard: 240-105658000 Supplier Quality Management Specification. Find the standard attached. The following shall be submitted to the Project Manager before work commence;

- Method statements and specifications adhered to;
- Material Certificates;
- Calibration Certificates;
- Calculations for any temporary works that may be required for the safe execution of the works;

7. HANDOVER

Apart from any statutory data packages required, the *Contractor* also compiles a data package of the relevant drawings, test certificates etc. to the *Project Manager* for acceptance. These include the following, where applicable:

- Document List;
- Instruction for Work/ Purchase Order;
- Approved and signed off ITPs, QCPs;
- Certificate of Compliance

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- Notifications;
- Modifications;
- Concessions;
- Technical Queries, Engineering Responses and communications with Project Manager/ Employer
- Non-conformance reports;
- Internal Release Notes;
- Transport notifications;
- As-built data and marked up drawings of the completed *works* upon handover.
- Method statements;
- Risk assessments;
- Temporary works design calculations and drawings.

8. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Nelly Hlophe	Auxiliary Engineering Manager
Vusi Chirwa	Civil Technician
Tagishi Fenyane	Safety Officer

9. REVISIONS

Date	Rev.	Compiler	Remarks
November 2023	0.1	T Lesame	Draft Document
February 2024	1.0	T Lesame	Final Document

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APPENDIX: A

Drawing list

0.57/4768	Plan of boiler roof sheeting arrangement
0.57/6669	Sheeting arrangement
0.57/7616	Details of gutters, down pipes, launders and header boxes
0.57/3573	Details of lower launders
0.57/16399	Duvha Power Station Plan sheeting arrangement A & B Line
0.57/16431	Duvha Power Station Plan sheeting arrangement roof at 57000 LvL Unit No.2
0.57/16445	Duvha Power Station Boiler arrangement sheeting arrangement
0.57/16454	Duvha Power Station Plan sheeting arrangement boiler tower
0.57/19487	Duvha Power Station Plan of boiler house roof unit 3 sheeting arrangement
0.57/19488	Duvha Power Station Plan of boiler house sheeting arrangement of roof sheeting at 57000 LvL between columns G-H unit 3
0.57/61403	Duvha Power Station GA Unit 3 general notes

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