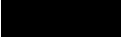


		
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Title:	Supply and Delivery of Boiler Internal Tubing for Grootvlei Power Station Units 1 to 3 on an As-and-When-Required Basis	Unique Identifier:	GVL/0732
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 **DISCLOSURE**

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1. INTRODUCTION

Grootvlei Power Station is a coal-fired power station located in Mpumalanga, South Africa, consisting of six units with units 1 to 3 currently operational. This document outlines the scope of work relating to the supply and delivery of boiler internal tubing required for routine maintenance and outage repairs across these units.

This document provides the scope of work for the Supply and Delivery of Boiler Internal Tubing for Units 1 to 3 on an as-and-when-required basis at Grootvlei Power Station for a period of 5 years.

1.1 Scope

1.1.1 Purpose

The purpose of this document is to formally capture all relevant information pertaining to the Supply and Delivery of Boiler Internal Tubing for Units 1 to 3 on an as-and-when-required basis at Grootvlei Power Station.

1.1.2 Applicability

This document is applicable to Grootvlei Power Station.

1.2 NORMATIVE/INFORMATIVE REFERENCES

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

1.2.1 Normative

- [1] ISO 9000: Quality Management Systems.
- [2] Occupational Health and Safety Act and Regulations (Osh Act; Act 85 of 93)
- [3] ISO 14001 Safety Management Systems
- [4] 32-345 Eskom Vehicle Safety specifications
- [5] 36-681 Generation Plant Safety Regulations
- [6] 240-83539994: Standard for Non-Destructive Testing (NDT) on Eskom Plant

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1.2.2 Informative

N/A

1.3 Definitions

Definition	Description
"As New" or Prime Tubing	New, unused tubing that meets all original design and material specifications for Babcock & Wilcox boilers, accompanied by full material and inspection certificates.
Material Certificate	Inspection certificate containing specific test results from the material, verified by the manufacturer's independent inspection representative.
Heat Number	Unique identifier assigned to a specific batch of molten metal, providing full traceability of chemical composition and production history.
SMLS (Seamless) Structure	Tubing manufactured without any welded seam through extrusion or piercing, providing uniform circumferential strength.
Vapor Phase Corrosion Inhibitor	Approved corrosion inhibiting compound inserted into tubes to protect internal surfaces from moisture and corrosion during storage.
End Caps	Protective seals fitted to both ends of each tube to prevent contamination ingress and internal corrosion.

1.3.1 Disclosure classification

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

1.4 ABBREVIATIONS

Abbreviation	Description
BS	British Standard
EN	European Norm (Standard)
ID	Inner Diameter
MTC	Material Test Certificate
OD	Outer Diameter
OEM	Original Equipment Manufacturer
PO	Purchase Order
QCP	Quality Control Plan
SANS	South African National Standard
VCI	Vapor Phase Corrosion
WT	Wall Thickness

1.5 ROLES AND RESPONSIBILITIES

This document shall be managed and maintained by Boiler Engineering and Boiler Maintenance at Grootvlei Power Station.

Roles and responsibilities are as follows:

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- a) **System Engineer** Compile the scope of work for the contract and provision for technical assurance.
- b) **The Contractor** is responsible for rendering of the service as per issued scope at Grootvlei Power Station.
- c) **Boiler Maintenance Departments** are responsible for making sure that the contract is managed properly.

1.6 PROCESS FOR MONITORING

The contractor manager must ensure that the contractor follows all Eskom procedures and process. The contractor is to ensure the use of Inspections and quality to monitor progress and quality of the work.

1.7 RELATED/SUPPORTING DOCUMENT

N/A

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2. EMPLOYERS WORKS INFORMATION

2.1 Executive Overview

The contract will cover the procurement of specified boiler straight tubes conforming to stringent technical, material, and certification standards. The contractor shall be responsible for delivering tubing that meets all outlined requirements, ensuring full traceability and quality compliance.

2.2 Ordering, Call-Off, and Delivery Procedure

Eskom will issue call-offs against this contract on an as-and-when-required basis via an official Purchase Order (PO). The Contractor shall acknowledge receipt of the PO and confirm the delivery date. **Delivery shall be made directly to the Grootvlei Power Station stores.** The Contractor is responsible for all transport and logistics, ensuring tubes are handled to prevent physical damage, deformation, or loss of identification markings.

2.3 Documentation Submission and Review

For each delivery, the Contractor shall provide a documentation pack that includes:

- Material Certificates
- Inspection Certificates
- Delivery Note, cross-referenced with the PO number, Heat Numbers, and Batch Numbers. This documentation **must accompany the delivery**. Materials delivered without the required, correct documentation will be rejected at the point of receipt.

2.4 Inspection and Verification Rights

Eskom reserves the right to conduct inspections to verify compliance at any stage:

- **Source Inspection:** Eskom representatives may conduct inspections and witness tests at the manufacturer's facility prior to shipment.
- **Receiving Inspection:** All tubing is subject to inspection upon delivery to verify compliance with specifications, markings, and preservation requirements.

2.5 Handling of Non-Conforming Materials

Any tubing that fails to meet the specifications of this Scope of Work, has missing or incorrect documentation, or shows evidence of damage will be rejected. Rejected materials must be removed from site by the Contractor and replaced with conforming materials at no additional cost to Eskom and within the original delivery schedule.

2.6 Quality Control Plan (QCP)

The supplier shall submit to Eskom a detailed Quality Control Plan (QCP) for the supply of boiler tubing. This QCP shall outline the procedures for material verification, dimensional checks, certification, marking, preservation, and final inspection before dispatch. The QCP must be approved by Eskom prior to the first order.

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2.7 Transportation and Packaging

Tubes must be packaged and transported in a manner that prevents:

- Physical damage, bending, or deformation.
- The removal or smudging of identification markings.
- The ingress of moisture, dirt, or other contaminants. Packs must be secured to prevent movement during transit.

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2.8 List of Boiler Tubing

Section 1	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	Amount
1	Straight pipe	BS3059 Gr440	50.8 x 4.89 x 6m		300		R -
2	U Bend (180°)	BS3059 Gr440	50.8 x 4.9 x 6m		100		R -
3	90° Bend	BS3059 Gr440	50.8 x 4.9 x 6m		100		R -
4	Economiser Baffle Plate						R -
Sub-Total Economiser Unit 1							R -
Section 2	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	Amount
5	Straight pipe	Bs3059 Gr620	63.5 x 4.9 x 6m		200		R -
6	Straight pipe	Bs3059 Gr620	63.5 x 5.4 x 6m		200		R -
7	Straight pipe	Bs3059 Gr620	63.5 x 6.4 x 6m		150		R -
8	Straight pipe	Bs3059 Gr620	63.5 x 7.6 x 6m		150		R -
9	Straight pipe	Bs3059 Gr620	63.5 x 11 x 6m		100		R -
10	Straight pipe	BS3059 Gr440	63.5 x 5.4 x 6m		100		R -
11	Straight pipe	BS3059 Gr440	63.5 x 5.9 x 6m		100		R -
12	Straight pipe	Bs3059 Gr622	63.5 x 11 x 6m		100		R -
Sub-Total PSH Unit 1							R -
Section 3	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	Amount
13	Transition Piece	TP 316H	57.1 x 8.8		80		R -
14	Transition Piece	TP 316H	57.1 x 9.4		80		R -
15	Inlet Leg 1	BS3059 Gr622	57.1 x 5.9 x 6m		200		R -
16	Inlet Leg 2	BS3059 Gr622	57.1 x 7.0 x 6m		200		R -
17	Inlet Leg 3	BS3059 Gr622	57.1 x 8.2 x 6m		200		R -
18	Inlet Leg 4	BS3059 Gr622	57.1 x 9.4 x 6m		200		R -
19	Outlet Leg 5	TP 316H	57.1 x 4.9 x 6m		80		R -
20	Outlet branches	BS3059 Gr622	57.1 x 8.8 x 6m		100		R -
Sub-Total SSH Unit 1							R -

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Section 4	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	Amount
21	Straight pipe	BS3059 Gr440	63.5 x 7.01 x 6m		400		R -
	Sub-Total Sling Tubes Unit 1						R -
Section 5	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	Amount
22	Straight pipe	BS3059 Gr440	63.5 x 7.01 x 6m		100		R -
	Sub-Total Roof Tubes Unit 1						R -
Section 6	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	Amount
23	Rear Wall	BS3059 Gr440	63.5 x 5.4 x 6m		1200		R -
24	Rear Wall Screen Tubes	BS3059 Gr440	63.5 x 7.01 x 6m		100		R -
25	RHS Wall	BS3059 Gr440	63.5 x 5.4 x 6m		1200		R -
26	RHS Wall Bottom Header Stubs	BS3059 Gr440	50.8 x 5.4 x 6m		900		R -
27	RHS Wall Bottom Slope	BS3059 Gr440	63.5 x 7.62 x 6m		900		R -
28	LHS Wall	BS3059 Gr440	63.5 x 5.4 x 6m		300		R -
29	LHS Wall Bottom Header Stubs	BS3059 Gr440	50.8 x 5.4 x 6m		300		R -
30	Front Wall	BS3059 Gr440	63.5 x 5.4 x 6m		600		R -
31	Div wall Slopes	BS3059 Gr440	76.2 x 5.9 x 6m		600		R -
32	Div Wall Vertical	BS3059 Gr440	63.5 x 5.4 x 6m		300		R -
	Sub-Total Boiler Wall Tubes Unit 1						R -
Section 7	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	Amount
33	Straight pipe	BS3059 Gr440	50.8 x 5.4 x 6m		300		
34	Economizer close spaced fins - finned tubes (Including ferrel)	BS3059 Gr440	50.8 x 5.4 x 6m		600		
35	Economizer wide spaced fins - finned tubes (Including ferrel)	BS3059 Gr440	50.8 x 5.4 x 6m		600		
	Sub-Total Economiser Unit 2 & 3						

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Section 8	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price
36	Straight pipe	BS3059 Gr440	63.5 x 5.4 x 6m		200	
37	Straight pipe	BS3059 Gr440	63.5 x 5.9 x 6m		200	
38	Straight pipe	Bs3059 Gr620	57.15 x 5.4 x 6m		200	
39	Straight pipe	Bs3059 Gr620	57.15 x 4.9 x 6m		200	
40	Straight pipe	Bs3059 Gr620	57.15 x 7 x 6m		200	
Sub-Total PSH Unit 2 & 3						
Section 9	Description	Material	Size (OD x WT mm)		Quantity	Price
41	SSH Outlet tubes	ASTM A312 (316H)	63.5 x 6.4 x 6m		100	
42	SSH Outlet tubes	BS3059 Gr622	63.5 x 11.79 x 6m		150	
43	SSH Outlet tubes	BS3059 Gr622	63.5 x 10.16 x 6m		150	
44	SSH Outlet tubes	BS3059 Gr622	63.5 x 9.4 x 6m		150	
45	SSH Outlet tubes	BS3059 Gr622	63.5 x 7.62 x 6m		150	
Sub-Total SSH Unit 3						
Section 10	Description	Material	Size (OD x WT mm)		Quantity	Price
46	Straight pipe	BS3059 Gr622	63.5 x 6.4 x 6m		150	
47	Straight pipe	BS3059 Gr622	63.5 x 11 x 6m		150	
48	Straight pipe	BS3059 Gr622	63.5 x 10.1 x 6m		150	
49	Straight pipe	BS3059 Gr622	63.5 x 9.5 x 6m		150	
50	Straight pipe	BS3059 Gr622	63.5 x 8.8 x 6m		150	
51	Straight pipe	BS3059 Gr622	63.5 x 8.2 x 6m		150	
52	Straight pipe	BS3059 Gr622	63.5 x 7 x 6m		150	
53	Straight pipe	BS3059 Gr622	63.5 x 5.9 x 6m		150	
54	Straight pipe	BS3059 Gr622	63.5 x 7.6 x 6m		150	
Sub-Total SSH Unit 2						
Section 11	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price
55	Sling Tubes	BS3059 Gr440	63.5 x 7.62 x 6m		100	
56	Sling Tubes	BS3059 Gr440	63.5 x 5.4 x 6m		100	
Roof Tubes						
Section 12	Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price
57	Roof Tubes	BS3059 Gr440	63.5 x 5.4 x 6m		300	
Sub-Total Roof Tubes Unit 2 & 3						

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Section 13		Description	Material	Size (OD x WT mm)	Material No.	Quantity	Price	
58		Rear Wall	BS3059 Gr440	63.5 x 5.4 x 6m		750		
	59	Rear Wall Screen Tubes	BS3059 Gr440	63.5 x 5.4 x 6m		300		
	60	RHS Wall	BS3059 Gr440	63.5 x 5.4 x 6m		750		
	61	RHS Wall Bottom Header Stubs	BS3059 Gr440	50.8 x 5.4 x 6m		150		
	62	LHS Wall	BS3059 Gr440	63.5 x 5.4 x 6m		750		
	63	LHS Wall Bottom Header Stubs	BS3059 Gr440	50.8 x 5.4 x 6m		150		
	64	Front Wall	BS3059 Gr440	63.5 x 5.4 x 6m		750		
	65	Div wall Slopes	BS3059 Gr440	76.2 x 5.89 x 6m		600		
	66	Div Wall Vertical	BS3059 Gr440	63.5 x 5.39 x 6m		1500		
	Sub-Total Boiler Wall Tubes Unit 2 & 3							
Section 14		Description	Material	Size (OD mm)	WT (mm)	Material No.	Quantity	Price
67		Economizer 180° Inner Bend	P265GH	50.8	5.4		300	
	68	Economizer 180° Outer Bend	P265GH	50.8	5.4		300	
	69	Roof Tube Manipulations	P265GH	63.5	5.4		120	
	70	Front and Rear Sling tube Manipulations (Modification)	P265GH	63.5	5.4		240	
	71	Front and Rear Sling tube Manipulations (Modification)	P265GH	63.5	7.6		240	
	72	PSH Inlet 180° Inner Bend	P265GH	63.5	5.4		300	
	73	PSH Inlet 180° Outer Bend	P265GH	63.5	5.4		300	
	74	PSH Inlet 180° Inner Bend	P265GH	63.5	5.9		300	
	75	PSH Inlet 180° Outer Bend	P265GH	63.5	5.9		300	
	76	PSH Outlet 180° Inner Bend	13CrMo 4-5	57.2	5.4		300	
	77	PSH Outlet 180° Outer Bend	13CrMo 4-5	57.2	5.4		300	
	78	PSH Outlet 180° Inner Bend	13CrMo 4-5	57.2	7		300	
	79	PSH Outlet 180° Outer Bend	13CrMo 4-5	57.2	7		300	
	80	PSH 90° Connecting leg bend	P265GH	63.5	5.9		300	
	81	PSH 90° Connecting leg bend	13CrMo 4-5	57.2	5.4		300	
	82	SSH 90° Connecting leg bend	10CrMo 9-10	63.5	8.8		300	
	83	SSH 90° Connecting leg bend	10CrMo 9-10	63.5	10		300	
Sub-Total Bends, Manipulations and Connecting legs								
85								

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Section 15	Description	Material	Size (mm)	Material No.	Quantity	Price	Amount
84	Economizer 90° Inner Bend Extrados Shield	SS310	51		150		R -
85	Economizer 90° Inner Bend Intrados Shield	SS310	51		150		R -
86	Economizer 90° Outer Bend Extrados Shield	SS310	51		150		R -
87	Economizer 90° Outer Bend Intrados Shield	SS310	51		150		R -
88	Economizer Straight shields	SS310	51		150		R -
89	Economizer Shield Clips for 51 ID Shields	SS310	51		150		R -
90	PSH Type 1 Shield (90° Short Bend)	SS310	64		150		R -
91	PSH Type 2 Shield (90° Long Bend)	SS310	58		150		R -
92	PSH Type 3 Shield (0.5m Straight reducer)	SS310	58		150		R -
93	PSH Type 3 Shield (0.5m Straight reducer)	SS310	64		150		R -
94	PSH Type 4 Shield (90° Long Bend)	SS310	64		150		R -
95	PSH Type 5 Shield (90° Short Bend)	SS310	58		150		R -
96	PSH Type 6 Shield (180° Bend)	SS310	64		150		R -
97	PSH Type 7 Shield (180° Bend)	SS310	58		150		R -
98	PSH, SSH, Sling, Screen & FWW Type 8 Shields (2m Straight)	SS310	64		150		R -
99	PSH Type 12 Shield (2m Straight)	SS310	58		150		R -
100	SSH Type 9 Shield (90° Long Bend)	SS310	64		150		R -
101	SSH Type 10 Shield (90° Short Bend)	SS310	64		150		R -
102	Roof Tube Manipulated Shields	SS310	64		150		R -
103	Shield Clips for 64 ID Shields	SS310	64		150		R -
104	Shield Clips for 58 ID Shields	SS310	58		150		R -
105	Jubilee Clamps for 64 ID Shields	Stainless Steel			150		R -
106	Jubilee Clamps for 58 ID Shields	Stainless Steel			150		R -
107	LHS Ash Hopper Straight Dipper Plates	Stainless Steel	1.8 x 1.2 x 3 mm		150		R -
108	LHS Ash Hopper Corner Dipper Plates	Stainless Steel	1.8 x 1.2 x 3 mm		150		R -
109	RHS Ash Hopper Straight Dipper Plates	Stainless Steel	1.8 x 1.2 x 3 mm		150		R -
110	RHS Ash Hopper Corner Dipper Plates	Stainless Steel	1.8 x 1.2 x 3 mm		150		R -
Sub-Total Shields, Shield Clips and Jubilee Clamps							R -
112							
Section 16	Description	Material Grade	Width (m)	Length (m)	Wall thickness (mm)	Quantity	Price
111	Divisional Slope Dead Space (LHS & RHS)	Skin Casing Plate	1.5	3	3	240	
112	LHS Slope Dead Space	Skin Casing Plate	1.5	3	3	240	

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113	RHS Slope Dead Space	Skin Casing Plate	1.5	3	3	240	
114	LHS Vertical Wall	Skin Casing Plate	1.5	3	3	670	
115	RHS Vertical Wall	Skin Casing Plate	1.5	3	3	670	
116	Front Wall Vertical	Skin Casing Plate	1.5	3	3	670	
117	Rear Wall Vertical	Skin Casing Plate	1.5	3	3	670	
118	LHS Economizer Slope	Skin Casing Plate	1.5	3	3	120	
119	RHS Economizer Slope	Skin Casing Plate	1.5	3	3	120	
Sub-Total Skin Casing							
TOTAL AMOUNT OF SECTION 1 TO 16							

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2.9 Tender Evaluation Strategy

2.9.1 Technical Evaluation Threshold

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

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is **70%**.

Evaluation will be done according to **Tender Engineering Evaluation Procedure 240-48929482**

2.10 Working Hours

The official working hours at Grootvlei Power Station are as follow:

- Monday to Thursday: 07:15 - 16:30
- Friday: 07:15 – 12:15

2.10.1 Normal Hours

- The Contractor shall adopt the working hours of the Employer during the contract period.

2.10.2 Emergency Hours

- N/A

2.11 Access to Facilities and Systems

- The Employer arranges an access permit to Grootvlei site for the Service Provider and his vehicle(s) to access site on call out into the station.
- While the Employer provides the accesses mentioned, the Service Provider makes use of these facilities and systems within all procedures or other rules governing the similar use of these facilities by the Employer's employees. These shall include the Employer's safety, security, and ethics rules. The onus rests with the Contractor to ensure compliance to the relevant rules.

2.12 Safety Precautions

2.12.1 HEALTH AND SAFETY PLAN (CONSTRUCTION REGULATIONS)

Upon the award of the contract, successful Contractor must submit a Health and Safety Plan, filed in a Health and Safety File.

The Safety Officer employed by Grootvlei Power Station will audit these Health and Safety Plan to ensure compliance with the provisions of the Act. The approval of the health and safety plan can sometimes take

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2 to 3 days to approve, and NO WORK shall be conducted before the plan is approved. The Contractor must consider this for their health and file costing.

- a) The Health and Safety Requirements to be met by contractors will be always complied with.
- b) The *Life Saving Rules* will be always applied to:
 - Rule 1: Open, Isolate, Test, Earth, Bond and/or Insulate before Touch
 - Rule 2: Hook up at heights
 - Rule 3: Buckle up.
 - Rule 4: Be Sober
 - Rule 5: Ensure that you have a Permit to Work

2.12.2 Quality Assurance Requirements.

The Contractor will be subject to periodic audits by the Employer in order to ensure compliance with the system. Any deviations will be corrected to the Employer's satisfaction.

The Supply Manager has the right to stop the Contractor's work activities which, in the opinion of Supply Manager, does not meet the requirements of the system and will have a detrimental effect on plant performance.

2.12.3 ENVIRONMENTAL REQUIREMENTS

The contractor shall comply with all Eskom Grootvlei Power Station environmental requirements such as policies, standards and procedures (work instructions). Non-conformance, incident reporting and investigations shall be done by the contractor. Polluter pays principles shall apply to all Contractors. It is the responsibility of the polluter to clean all spillages and for the rehabilitation of the polluted land and the cost associated with that.

Eskom Grootvlei Power Station shall issue non-conformances where there are deviations from Grootvlei Power Station Procedures and any other environmental requirements. Adherence to the 'Duty of Care' as stipulated in section 28 of the National Environmental Management Act 107 of 2008.

All incidents shall be managed according to Eskom Environmental incident management procedure-**240-133087117**; Station Waste management procedure and colour coding shall be always adhered to.

3.1 Site Logistics and Emergency Preparedness

3.1.1 Site Access and Roads

Main access roads to the Grootvlei Power Station stores are surfaced and maintained in a fair condition. The Contractor shall ensure that all vehicles used for delivery are suitable for these roads and operate with necessary care.

3.1.2 Emergency Preparedness for Delivery Personnel

While on site, the Contractor's personnel must adhere to all Eskom emergency procedures. The Contractor shall ensure that their delivery personnel are briefed on the following:

- Location of emergency assembly points.
- Basic site safety and evacuation procedures.

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- The requirement to report any incidents or accidents immediately to Eskom representatives.

3.2 General

This contract and all information associated with its management is confidential and may not be divulged beyond the provisions stated within the contract. Should the Contractor violate this condition, the Employer may terminate this contract forthwith and nullifying any outstanding or further claims by the Contractor.

The Contractor and the key persons are to declare any interest, pecuniary, material or otherwise, in any tender, offer or quotation to the Contracts Service Manager for any other work, supply or service, to the Employer's Agent at the time when such tender, offer or quotation is submitted. The Contracts Service Manager's interpretation of a situation shall apply where there is a conflict.

3. Authorisation

This document has been seen and accepted by:

Name	Designation
██████████	████████████████████
██████████	██████████
██████████	██████████████
██████████████	██████████
██████████	████████████████████

4. Revisions

Date	Rev.	Compiler	Remarks
March 2026	0	██████████	New Document

5. Development Team

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

- ██████████
- ██████████
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