	Specification	Medupi Power Station
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**Title: Medupi Power Station Engineering
Human Resource Capacity Service
Contract Scope of Work**

Document Identifier: **240-123582422**

Alternative Reference
Number:

Area of Applicability: **Medupi Power Station**


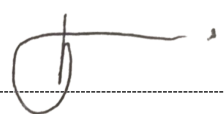
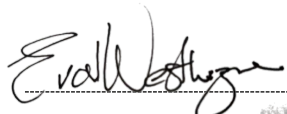
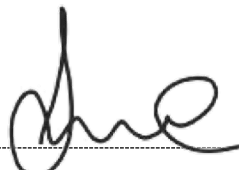
Functional Area: **Engineering**

Revision: **1**

Total Pages: **16**

Next Review Date: **N/A**

Disclosure
Classification: **Controlled Disclosure**

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1. Introduction

Medupi Power Station is a new build coal fired power plant employing supercritical technology. The power plant was built to enhance Eskom generation capacity with the following performance target;

- The plant must be able to achieve 92% availability
- 6% planned unavailability
- 2% unplanned unavailability

The station performance has not been satisfactory contributing to load shedding that has major consequences to the country economy. **Error! Reference source not found.** for details shows the contribution of Medupi Power Station on the coal fleet load losses that contributes to the energy shortages.

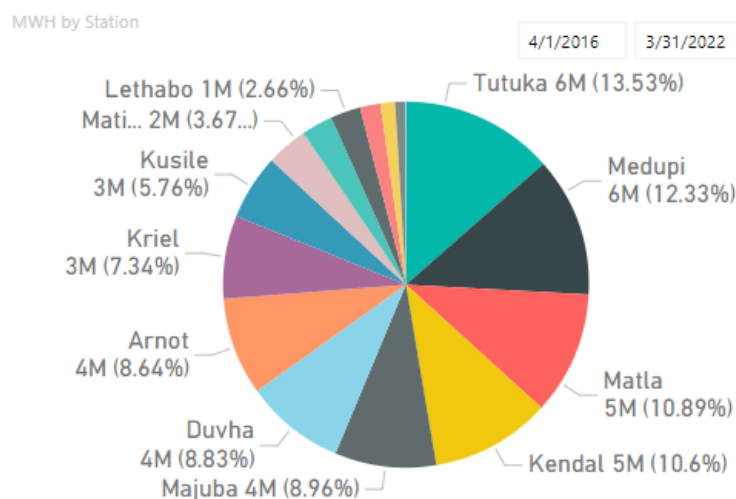


Figure 1: Coal fired fleet performance

In order to achieve the above mentioned performance criteria it is necessary to resolve inherent design defects that are contributing to the load losses and ensure that the maintenance base as well as the design base is established.

The above can be achieved by resolving inherent design defects and operating the power plant within the design envelop.

When boiler, turbine, auxiliary performance is below contracted station key performance indicators (KPI), it defeats the objective of supercritical boiler technology.

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2. Supporting Clauses

2.1 Scope

The scope covers all engineering work to be performed at Medupi Power Station, including Boiler plant, Turbine plant, Electrical Plant, Control & Instrumentation systems as well as the Auxiliary plant.

2.1.1 Purpose

The purpose of this document is to outline the works information, the technical requirements, and all the contract and safety requirements for Medupi Power Station Engineering Human Resource Service Contract.

The proposed contract must support the station to achieve design performance criteria, environmental and Safety contraventions while achieving station performance targets.

It is therefore imperative that the successful and suitably qualified Contractor aligns his/her organisation fully to these specified scope activities and processes laid down in this document as well as relevant and recognised international, national and Employer's standards and policies.

2.1.2 Applicability

This document shall apply to Medupi Power Station Engineering.

2.1.3 Effective date

This document shall be effective from the date of authorisation.

2.2 Normative/Informative Reference

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] Occupational Health and Safety Act no. 85 of 1993
- [3] GGR 0992 Eskom Plant Safety Regulations
- [4] 240-62196227 Eskom Lifesaving Rules
- [5] 240-44175132 PPE Specification
- [6] 32-520 Occupational Health and Safety Risk Assessment Procedure
- [7] 32-477 SHE Training and Development

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- [8] 32-95 Environmental, Occupational Health and Safety Incident Management Procedure
- [9] 240-43400017: Plan Technical Effort
- [10] 240-53113953: Manage Engineering Accountability Procedure
- [11] 240-49104627: Engineering Workload and Resource Planning Procedure
- [12] 240-53114026: Project Engineering Change Management Procedure
- [13] 240-53114002: Engineering Change Management Procedure
- [14] 240-50317699: Manage Technical Queries Procedure
- [15] 240-53113685: Design Review Procedure
- [16] 240-53113706: Procedure for Establishing an Engineering Business Strategy
- [17] 240-48929482: Tender Technical Evaluation Procedure
- [18] 240-53665024: Engineering Quality Manual
- [19] 240-53114186: Document and Records Management
- [20] 240-53114190: Internal Audit Management
- [21] 240-53114192: Corrective and Preventative Action
- [22] 240-53114193: Occurrence and Incident Management
- [23] 240-53114194: Control of non-conforming Product
- [24] 240-72100555: The Engineering Management Framework and Operating Model Guideline

2.2.2 Informative

- [25] Engineering Profession Act (46 of 2000)
- [26] Public Finance Management Amendment Act, 1999 (Act 29 of 1999)

2.3 Definitions

2.3.1 Terms:

Terms	Definitions
Availability	Operable and committable state of the system.
Contractor	A company that undertakes a contract to provide materials or labour to perform a service or do a job.
Load-shedding	Deliberate shutdown of electric power in a part or parts of a power-distribution system, generally to prevent the failure of the entire system when the demand strains the capacity of the system
Planned unavailability	All the planned maintenance outages/shutdowns for plant maintenance purposes.
Supercritical	Operating at temperatures and pressures above the critical point of water
Unplanned unavailability	All the unplanned plant shutdowns or trips/load losses.

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2.4 Abbreviations

Abbreviation	Explanation
AUGS	Unplanned automatic grid separation
C&I	Control and Instrumentation
EPP	Engineering Project Plan
EWMBC	Engineering work management business capability
KPI	Key Performance Indicators
MSMW	Maintenance Strategy and Maintenance Work
PBS	Plant Breakdown Structure
PPE	Personal Protective Equipment
RBI	Risk Based Inspection
UCLF	Unplanned capability loss factor

2.5 Roles and Responsibilities

Department/Responsible Persons	Responsibilities
Contractor	To perform Boiler, Turbine, Electrical, C&I and Auxiliary engineering work as defined and allocated by the Employer.
System Engineer	Review and sign off on the work executed by the contractor for his or her plant area.
Line Manager	Manage the resources allocated to their function and provide signed off KPI for respective plants allocated

2.6 Process for Monitoring

The content of this document will be used as work information for contract phase hence monitoring will be by the employer representative.

2.7 Related/Supporting Documents

Not Applicable

3. Engineering Human Resource Management, Challenges and Objective

3.1 Description of engineering work management

Provides understanding of the engineering work management purpose and importance in conducting engineering tasks.

Engineering work management business capability (EWMBC) is the application of the following;

- Process flow:

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- Produce and communicate an Engineering Project Plan (EPP)
 - Provide input into the Project Schedule and Cost Estimate
- Knowledge:
 - Education
 - Experience
- Skills:
 - Design
 - Modification
- Tools:
 - Project Management
- Techniques to effectively manage and control engineering work relating to scope, cost and project schedules during asset life cycle. Engineering work management will be employed during;
 - Design
 - Construction
 - Outage
 - Commissioning
 - Expansion and enhancement
 - Design base reconstitution

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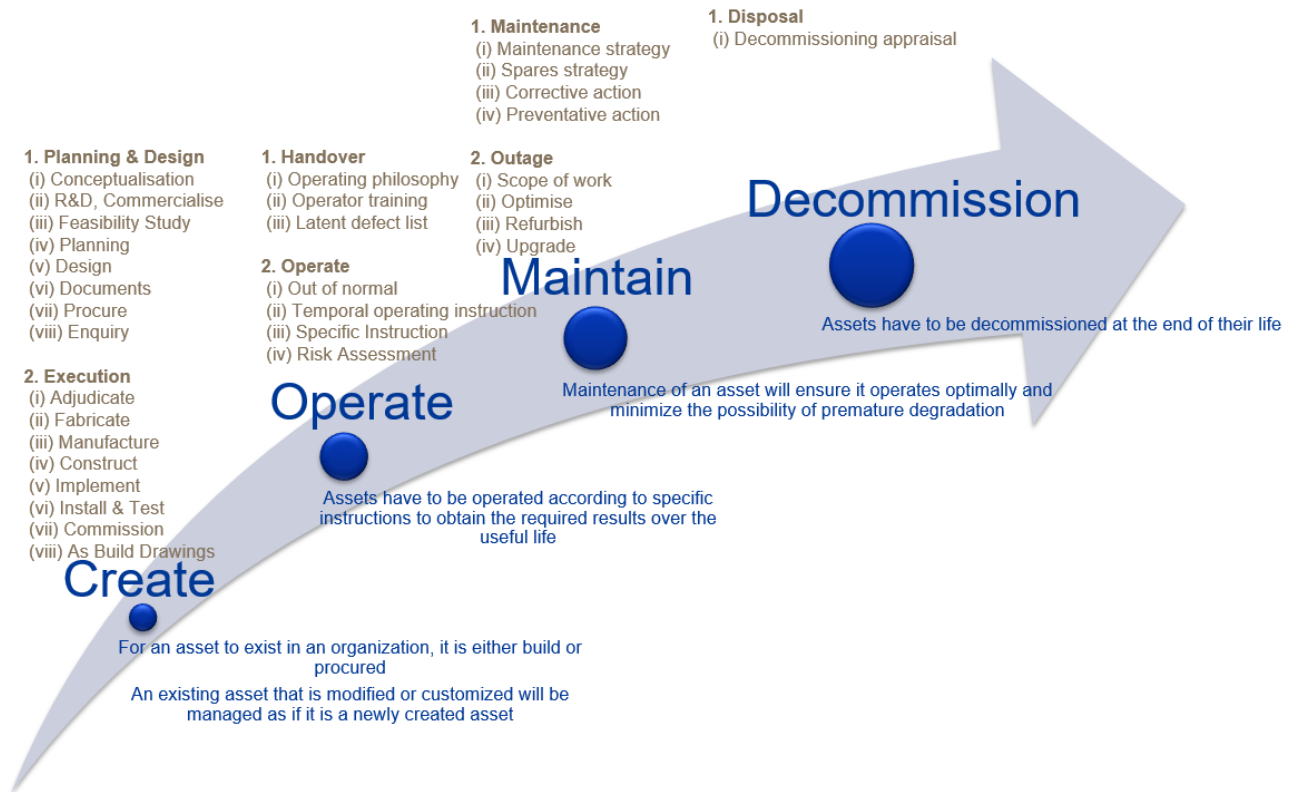


Figure 2: Asset life cycle

3.2 Problem statement

Medupi Power Station is underperforming due to engineering controls that are a result of design, modification and equipment performance attributed to the following;

- a) Original design analysis inadequate
- b) Unknown failure of components
- c) Technical guidance not incorporated into operating philosophy
- d) Operating equipment out of design envelop
- e) Maintenance not effective
- f) Accepted equipment failure
- g) Premature ageing and failure component
- h) Activities not conducted in a manner that is safe
- i) Inadequate spares management
- j) Preventative maintenance program not effective

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3.3 Evaluation Criteria

The following evaluation criteria will be used to select high performance service providers to be able to world class performance at Medupi Power Station.

Level	Education	Competency		Registration	Experience
Site Manager	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28 <input type="checkbox"/> 29 <input type="checkbox"/>		33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 <input type="checkbox"/> 36 <input type="checkbox"/> 37 <input type="checkbox"/>	38 <input type="checkbox"/> 39 <input type="checkbox"/> 40 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/>
Senior Engineer / Technologist	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28 <input type="checkbox"/> 29 <input type="checkbox"/>		33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 <input type="checkbox"/> 36 <input type="checkbox"/> 37 <input type="checkbox"/>	38 <input type="checkbox"/> 39 <input type="checkbox"/> 40 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/>
Engineer	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28 <input type="checkbox"/> 29 <input type="checkbox"/>		33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 <input type="checkbox"/> 36 <input type="checkbox"/> 37 <input type="checkbox"/>	38 <input type="checkbox"/> 39 <input type="checkbox"/> 40 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/>
1. Bachelor's Degree 2. Post Graduate Diploma 3. Bachelor Honours Degree 4. Master's Degree 5. Doctoral Degree	6. Pressure Parts 7. FD,PA & ID Fans 8. Fuel Oil Plant 9. Steam Piping 10. Gas Air Heater 11. Baghouse 12. Milling 13. Turbines	14. Baghouse 15. Sootblower 16. Fire tube boilers 17. Ducting 18. PF/FO Burners 19. Vessels 20. Condensers 21. Water Plant	22. Conveyors 23. Compressors 24. Stackers/Reclaimer 25. Dust Handling Plant 26. Analytical Skill 27. Workplace Skill 28. Personal Skill 29. Leadership 30. PLC 31. Process Network 32. Automation System	33. ECSA 34. SAIEE 35. SAIME 36. SAIMC 37. Other	38. 1 year 39. 2-5 years 40. 6-10 years 41. 11-15 years 42. 16-20 years 43. > 21 years

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Note: Provide proof for any of the above criteria with all supporting documents certified (stamp not longer than 6 months)

3.4 Resource Quantities

Plant Area	Sub Systems	Technical	Engineer	Senior Engineer	Activities
1. Pressure Parts	Tubes, Buckstay, Lugs, Lollipops		<input checked="" type="checkbox"/>		
2. Milling Plant	Grinding Table, Rollers, Throat, Classifier		<input checked="" type="checkbox"/>		
3. Pulsating Jet Fabric Filter	Bags, Cages, Dampers,		<input checked="" type="checkbox"/>		
4. Gas and Steam Air Heater	Rothemühle, Fin and Tube		<input checked="" type="checkbox"/>		
5. Draught Plant	Axial fan, Radial fan		<input checked="" type="checkbox"/>		
6. Steam Piping and Thick wall Components	Hangers, Distributors, Separators		<input checked="" type="checkbox"/>		
7. Boiler Auxiliaries	Valves, Pumps, Vessels, Manifolds		<input checked="" type="checkbox"/>		
8. Sootblowers	Lance, Water Cannons, Pumps		<input checked="" type="checkbox"/>		
9. Fuel Oil	Pumps, Heat Exchanger and FO Burners		<input checked="" type="checkbox"/>		
10. Ducting	Dampers, Links, Expansion Joint		<input checked="" type="checkbox"/>		
11. Data Capture	Technical reports, minutes, capturing, analysis, visualisation	<input checked="" type="checkbox"/>			

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Plant Area	Sub Systems	Technical	Engineer	Senior Engineer	Activities
12.Boiler Analytics	Boiler Heath Care Program		☒		
13.Fuel and Combustion Systems	Modifications, Project, Life of Plant Plan, Technical Plant			☒	
14.Logistic	Plant Spares, Preservation,	☒			
15.Low Pressure Services	Aux Cooling, Raw Water, Compressor		☒		
16.Bulk Material Handling Systems	Stackers, reclaimers, conveyors		☒	☒	
17.Process Network	System Admin Automation System (Siemens & Alspa) PLC (Siemens, Alen Bradley) maintenance & Spares strategy, Cybersecurity compliance		☒	☒	
Maintenance Strategy MW - MSMW¹ Risk Based Inspection - RBI² Document Handover - DHO³ Engineering Change/Defects – EC⁴		6 months	6 months	6 months	April – Sep 2022 ¹
		12 months	12 months	12 months	Oct 2022 – Oct 2023 ²
		6 months	6 months	6 months	Nov 2022 – Apr 2024 ³
		6 months	6 months	6 months	Nov 2024 – Apr 2025 ⁴
Senior Engineer = Category B Engineer = Category C Technician = Category D		24/36 months	24/36 months	24 months	April 2022 – April 2025
		2 / 1	14 / 5	3	

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3.5 Deliverables

3.5.1 Engineering activities

All engineering activities related to a specific plant area which include but not limited to;

- Primary Focused area:
 - Maintenance Strategy and Maintenance Work Package reviews and sign-off
 - Life of Plan Projects and Technical Plan Projects development
 - Risk Based Inspection Project roll-out and management
 - Spare specifications
 - Data book reviews / handover design reviews
- Secondary Focus area:
 - Provide advice to stakeholder on plant issues
 - Incident Investigations
 - Risk assessments and risk task completion
 - Corrective and Preventative Action close out
 - Modification / Engineering change
 - Work information development
 - Technical Adjudications
 - Compile and review documentations (e.g. maintenance philosophy, outage SOW)
 - Conduct feasibility studies
 - Conduct plant life cycle plan (e.g. Life of plant plan, technical plan)
 - Decommissioning report
 - Project Life Cycle Management
 - Plant inspections
 - Plant monitoring

3.5.2 Engineering priorities

- MSMW Project – 6 months from contract start date (February 2023)
- Risk Basis Inspection – October 2023
- Handover – until end of the contract
- Unplanned capability loss factor (UCLF)
 - Pulse jet fabric filter
 - Hopper levels

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- Bag failures
 - Erosion
 - Pulsing
- Superheater and Reheater final steam temperatures
 - Spraywater valve
- Reheater high temperature
 - High pressure bypass valve
- Sootblowing
 - Boiler tube leak sootblower erosion
 - Sootblower erosion task team
- Duct erosion
- Ash plant
 - High silo levels
 - Conveying leak
- Unplanned automatic grid separation (UAGS)
 - Draught group
 - Milling plant
 - Superheater and Reheater final steam temperatures
 - Spraywater valve
 - High pressure bypass valve
 - Sootblowing
 - Combustion air flow (e.g. dampers)
 - Duct erosion
- Technical plant risk
 - High water consumption
 - Passing valves
 - Leaks vales
 - Spares
 - Availability (all listed plants in 3.4)
 - Compressor plant
 - Moisture in the air
 - High number of open investigations and implementation of action plans

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3.6 Service and Standards

The Contractor shall perform all services necessary to ensure that the plant within design envelop and procedure. The performance of plant shall continuously monitored against historical to ensure that there is improvement.

3.7 Standby

The contractor will be on scheduled standby list where he will be expected to resolve all boiler plant issues when other engineers are not available at night or weekends. This will be handled as overtime with operating making call out to the contractor.

3.8 Working hours

Normal working times are 07:00 to 16:15 Monday to Thursday and 07:00 to 12:00 on Friday. With lunch break between 12:00 and 12:30 (Monday to Thursday).

3.9 Contract Requirements

- i. The Contractor shall provide its own transport.
- ii. Provide own accommodation
- iii. The Contractor shall provide its own PPE.
- iv. Provide own Laptops, stationary and tools required. Laptops software must be adhering to Eskom standard to be able to have access to network and applications that needs to be used.
 - a. Computer specification
 - Processor: i7 or i5
 - RAM: 16GB or 8GB
 - Hard drive: 500GB
 - Operating system: Windows 10
- v. The contractor shall attend all plant safety, governance and competency courses provided by the Employer within one (1) month before working in the plant
- vi. The Contractor shall provide adequate skilled personnel for the tasks when a new employee joins the site team and they will meet the set technical criteria in the technical evaluation tool used.
- vii. All personnel brought on site in connection with the SOW should be able to fluently speak, understand and write in English as well computer literate.
- viii. The Contractor must ensure that all personel being brought into Medupi Power Station site, produce valid fitness certificate (medical test) as per specified plant man-job specification.

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ix. The Contractor shall compile a detailed report on the works completed and it must be submitted electronically within seven days from the date of completion to the Employer. The report shall contain the following:

- a) Task
- b) Date and time of the task
- c) Name of the task
- d) Task objective
- e) Comments/Recommendation
- f) Conclusion

3.10 Safety Requirements

- a) The Contractor shall comply with Eskom Occupational Health and Safety, Environmental, Risk and Quality requirements, standards and policies.
- b) The Contractor shall ensure compliance to all Eskom mandatory standards and statutory requirements.
- c) The Contractor shall ensure that they use correct PPE (safety goggles, safety gloves, overalls, reflective vest, dust masks, earplugs, hardhat, safety boots) at all times.
- d) The Contractor shall provide valid medical certificates.
- e) The Contractor shall ensure that induction is done prior to commencement of work.
- f) All safety regulations pertaining to the process shall be adhered to and the contracting company shall also ensure that it sends its safety file for approval with all the required documentation as per safety file checklist to Risk Department.
- g) The Contractor shall have a safety file with all the required documents as per Eskom Safety file checklist.
- h) The Contractor shall ensure that the vehicle to be used on site conforms to Eskom safety standards.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
Elaine Van Der Westhuizen	Design and Specification Engineering Manager
Derrick Chauke	Electrical Engineering Manager

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Name	Designation
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Justice Mphahlele	Contract Management Manager
Pieter Myburgh	Process Engineering Manager
Thembi Mukenga	Technician Performance and Testing Engineering Manager
Sithokozile Hlongwa	Boiler Engineering Manager
Moses Nonyane	Manager Project Support
Tendani Mukhuba	OHS Manager
Sandra Shuma	Turbine Engineering Manager

5. Revisions

Date	Rev.	Compiler	Remarks
Nov 2021	1	BK Rahlogo	Document is compiled to provide works information for engineering resources

6. Development Team

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

Elaine Van Der Westhuizen

Jabulani Mkhathshwa

7. Acknowledgements

Not applicable

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