



Scope Of Work

**Kriel Power Station
Generation**

Title: **Kriel P.S. – Draw, Fabricate, Supply, Deliver, Replace, and Install New Pipework with Fittings inside the Cable Tunnels and Pipe Trenches**

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1. INTRODUCTION

The **Kriel P.S. – Draw, Fabricate, Supply, Deliver, Replace, and Install New Pipework with Fittings inside the Cable Tunnels and Pipe Trenches** document outlines the maintenance *works* that must be executed at the Cable Tunnels and Pipe Trenches. This *works* is critical to address the excessive leaks that are consistently sprouting all around the Cable and Trenches. Resulting in the increased terrace dam levels and the station water consumption. The intention of placing the order is to urgently address these leaks and restore the plants to a good state of repair.



Figure 1: Estimated routing reflecting Cable Tunnel

1.1 AFFECTED PLANT AREAS

Below are the affected plant areas that are included as part of the *works*:

- The Cable Tunnels under/below Units 1 to 6.
- The exposed pipe trenches along the mains and the pipe trenches above/underground across the power station.

The *works* will be limited to the above stated areas, and any new areas will be covered by the Mechanical Maintenance Department (MMD) team.

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1.2 AFFECTED PLANT SYSTEMS

Below are the affected plant systems pipework located underground inside the Cable Tunnels that are included as part of the *works*:

- Emulsifier Fire Protection System
- Hydrant Fire System
- Compressor Plant
 - Control Air
 - Service Air
- Portable and Demin Water Supply

2. SUPPORTING CLAUSES

2.1 SCOPE

This document details the *Scope of Works* that covers the following:

- The replacement of 600 m of both the 200 NB and 250 NB for the Fire Hydrant Protection System and Emulsifier Protection System headers with all the associated fittings.
- The replacement of the leaking pipework, bends, elbows, and tee-pipe sections for all the water and air supply piping inside the Cable Tunnels.
- Where necessary, in areas where isolations are ineffective, or valves are passing excessively hot tapping must be done to achieve isolation including the installation of new isolation valves.

2.2 LIMIT OF SCOPE AND SUPPLY

This limit of the *Scope of Works* excludes the following:

- All the pipework that are installed outside the Cable Tunnels/ Pipe Trenches above ground with clear access and visibility are not part of the scope.
- None of the items stated in this *Scope of Work* will be free issue, the provision of this stated items including labour or tools/equipment will be at the expense of the *Appointed Contractor*.
- The pipe replacement of the fire protection system is limited only to 600 m for each of the systems, meaning a combined total of 1 200 m.
- None of the currently installed fire protection pipework and fittings i.e., gaskets, flanges, pipes, bends, and tees inside the Cable Tunnels must be re-used even when their overall condition is deemed acceptable. All of them must be put away at a designated storage area provided by *Eskom*.
- The rest of the systems pipework when there are leaks, there will be no strapping or patch repairs, in those affected areas the leaking pipework or fittings must be replaced and not entire pipeline sections.

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- The site conditions inside the Cable Tunnels varies, some areas very confined, dimly lit with poor visibility, with varying water inflows through the channels at times they can reach up to waist height, and with some of the pipework buried in large volumes of hip of ash. The appointed contractor must make provision for that to avoid having delays.
- The cleaning of the vegetation inside the Cable Tunnels, and the handling of the water inflows inside the Tunnels that hinder the execution of the *works* is part of the scope.
- The duration of the execution of this *Scope of Works* is limited to a maximum of 45 working days, it may not take longer than this duration. Therefore, the appointed contractor must ensure they adequately staff, procure adequate materials to execute this urgent *works*.

2.2.1 PURPOSE

The purpose of this document is to specify all the requirements for the *Scope of Work* for the pipe replacement.

2.2.2 APPLICABILITY

This document is applicable to Kriel Power Station Fire Protection Systems.

2.3 NORMATIVE/INFORMATIVE REFERENCES

2.3.1 NORMATIVE

- [1] ISO 9000, Quality Management Systems.
- [2] Occupational Health and Safety Act 85 of 1993.
- [3] National Building Regulations and Building Standards Act 103 of 1977.
- [4] EST 32-124, Eskom Fire Risk Management.
- [5] 240-54937654, Inspection, Testing and Maintenance of Fire Detection Systems.
- [6] ISO 3834-1: 2021, Quality Requirements for Fusion Welding of Metallic Materials.
- [7] ISO 15614-1:2017, Specification and Qualification of Welding Procedures for Metallic Materials – Welding Procedures Test, Part 1: Arc and Gas Welding of Steels and Arc Welding of Nickel Alloys.

2.3.2 INFORMATIVE

2.3.2.1 Eskom Standards

- [8] 240-54937450, Fire Protection & Life Safety Design Standards.
- [9] 240-56737448, Fire Detection and Life Safety Design Standard.
- [10] 240-126467640, Operational Standard for Fire Fighter Training in Generation.

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- [11] 240-126467668, Operational Standard for Inspection, Testing of Fire and Rescue Non-Plant Equipment in Generation.
- [12] 240-126468603, Operational Standard for Fire Management in Generation.
- [13] 36-681, Plant Safety Regulations.

2.3.2.2 South African National Standards

- [14] SANS 193, Fire Dampers.
- [15] SANS 306-4, Fire Extinguishing Installations and Equipment on Premises, Part 4: Specification for Carbon Dioxide Systems.
- [16] SANS 331, Fire Extinguishing Aerosol Systems.
- [17] SANS 369-2, Code of Practice for the Operation of Fire Protection Measures – Part 2: Mechanical Actuation of Gaseous Total Flooding and Local Application Extinguishing Systems.
- [18] SANS 1253, Fire Doors, and Shutters.
- [19] SANS 1475-1, The Production of Reconditioned Fire-Fighting Equipment – Part 1: Portable and Wheeled (Mobile) Rechargeable Fire Extinguishers.
- [20] SANS 10105-1, The Use and Control of Fire-Fighting Equipment – Part 1: Portable and Wheeled (Mobile) Fire Extinguishers.
- [21] SANS 10105-2, The Use and Control of Fire-Fighting Equipment – Part 2: Fire Hose Reels and Above-Ground Fire Hydrants.
- [22] SANS 10177-2, Fire Testing of Materials, Components, and Elements Used in Buildings, Part 2: Fire Resistance Test for Building Elements.
- [23] SANS 10400, The Application of the National Building Regulations.

2.3.2.3 National Fire Protection Association

- [24] NFPA 11, Standard for Low, Medium, and High-Expansion Foam.
- [25] NFPA 12, Standard on Carbon Dioxide Extinguishing Systems.
- [26] NFPA 13, Standard for the Installation of Sprinkler Systems.
- [27] NFPA 15, Standard for Water Spray Fixed Systems for Fire Protection.
- [28] NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

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[29] NFPA 750, Standard on Water Mist Fire Protection Systems.

[30] NFPA 850, Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations.

[31] NFPA 2001, Standard on Clean Agent Fire Suppression Systems.

2.4 DEFINITIONS

N/A

2.5 DISCLOSURE CLASSIFICATION

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

2.6 ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
ANSI	American National Standards Institute
API	American Petroleum Industry
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing Materials
BOQ	Bill of Quantities
BS	British Standard
C&I	Control and Instrumentation
DIN	Deutsches Institut fur Normung (German Design Standard/Code)
ISO	International Organization for Standards
NDT	Non-Destructive Testing
NFPA	National Fire Protection Association
OHSA	Occupational Health and Safety Act
PPE	Personal Protective Equipment
QCP	Quality control program/plan/procedure
SANS / SABS	South African National Standards
SHE	Safety, Health & Environmental
SoW	Scope of Work

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2.7 ROLES AND RESPONSIBILITIES

The stakeholders are identified below and must comply to their following duties:

System Engineer (Owner) – Auxiliary Engineering with their Mechanical Counterparts:

- Responsible for the development of the *Scope of Work (SoW)* for the maintenance of the pipework and fittings.
- Responsible for the development of the quality intervention points and perform inspections.
- Responsible for the application of specified standards during the refurbish/repair/maintenance and to ensure strict quality control of the process (QCPs) are adhered to. Therefore, providing quality assurance on behalf of Eskom.
- Responsible in the development of the Quality Intervention Points/Hold Points and to perform inspections.

Contracts Manager:

- Responsible for the budgeting, planning, and the resource allocation for the *Works*.
- Responsible for the execution of the *Scope of Work (SoW)*.
- Responsible with ensuring that the coordination, management, execution for the works is completed, with appropriate hold points, and quality control interventions.
- Responsible for the execution of the Quality Intervention Points/Hold Points and perform inspections. Ensure strict adherence to the quality control of the process (QCPs), therefore, providing quality assurance on behalf of Eskom.

Quality Inspector/ Practitioner:

- Responsible for ensuring that the technical quality requirements are met, and Quality Management processes/ procedures are followed.
- Responsible for the execution of the Quality Intervention Points/Hold Points and perform inspections. Ensure strict adherence to the quality control of the process (QCPs), therefore, providing quality assurance on behalf of Eskom.

Appointed Contractors with the assistance of the Maintenance Supervisor:

- Responsible for the execution of the *Scope of Work (SoW)* for the replacement of the pipework and fittings.
- Responsible for the execution of the Quality Intervention Points/Hold Points and perform inspections. Ensure strict adherence to the quality control of the process (QCPs), therefore, providing quality assurance on behalf of Eskom.
- Responsible for the application of specified standards during the refurbish/repair/maintenance and to ensure strict quality control of the process (QCPs) are adhered to. Therefore, providing quality assurance on behalf of Eskom.

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3. THE WORKS

3.1 DESCRIPTION OF THE WORKS

3.1.1 GENERAL

- The *Contractor* must ensure compliance to all local, and Eskom safety protocols, must also ensure their staff has undergone the necessary safety inductions and/or acquired/in-position of valid relevant safety training certifications.^{[2][13]}
- The *Contractor* must ensure before any *works* is performed, that a job specific Risk Assessment is in place, apply for relevant permits and Red Tags (where/if applicable) before starting the *works*.
- The *Contractor* must identify key isolation points and/or valves to isolate the areas that will be affected by the *works*. Where necessary, the *Contractor* must identify the isolation points for each unit where hot tapping can be done to re-route/by-pass, and tie-ins to existing pipework.
- The *Contractor* must ensure they have the capacity to perform hot tapping, to ensure that when the existing isolations fail through the passing of valves, the *Contractor* must ensure if/when necessary, pipe are rerouted to assist in the installation of new temporary pipe bypasses.
- The *Contractor* must provide a plan of the *works*, must ensure all the tools, and equipment that are required to execute the *works* are available.
- All welding *works* must comply with welding standard ISO 3834, and BS/EN/ISO 15614 part 1.^{[6][7]}
- All the welding *works* must be tested, undergo the Quality Control Process, and must be approved by the *Employer*.^{[1][6][7]}
- The *Employer* will issue all available drawings to the *Contractor* to be used to execute the maintenance of the various pipework. In the event of the plant layout deviating from the P&IDs, plant drawings, and plant 'As Builts'. The *Contractor* must redline the drawings in consultation with the *Employer*, and when they are not available the *Contractor* must create new drawings to be approved by the *Employer*.
 - The red-lined drawings must be submitted before the commissioning of the Fire Protection System, and the final drawings must be submitted no later than thirty (30) days after the *works* has completed.
 - All the drawings must be approved by a Registered Professional Engineer and must comply with all Eskom's drawing requirements.
 - All the updated drawings must be submitted to the *Employer* for approval before starting with the *works* –if there are any changes before installation. This includes updating all the other drawings supplied to the *Contractor* by the *Employer* for the purpose of this project.

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Fabrication of Pipes, Gaskets and Flanges

- The appointed *Contractor* must take measurements of the currently installed pipework as follows:
 - Measure the pipe sections from flange to flange i.e., verify all 6 m, 5 m 3 m, 1 m etc pipe sections.
 - Important to note for ease of future maintainability it is best to manufacture as 3 m pipe sections.
 - Measure and verify the flange sizes, number of holes, pitch diameter, and size of required bolts as well as the number of flanges to complete the full installation.
- New pipework, and pipe flanges (with gaskets) must be fabricated off-site –verify the design code on site if it is BS or DIN or SANS before fabrication to avoid mismatch of holes.
- The new steel pipe flanges must be manufactured according to SANS 1123 Standard Specification for Steel Pipe Flanges.
- The new steel pipes must be manufactured according to SANS 62 for Small Bore Piping (Welded Galvanised Carbon Steel Pipes) and SANS 719 for Large Bore Piping.
- The new pipes, flanges must be epoxy coated and must be painted coloured red.

3.1.2 WORKS

The *works* covers the following:

i. Inspections

- The appointed *Contractor* must conduct an initial site visual inspections to assess the existing conditions of the commercial steel pipes, unit isolation valves.
- The appointed *Contractor* must identify all leaking or defective pipes, unit isolation valves, and notify the supervisor and/or the Contracts Manager of the proposed scope for pre-approval.
- The appointed *Contractor* must obtain necessary permits and approvals from the relevant authorities.
- The appointed *Contractor* must notify stakeholders and affected parties about the project timeline and potential disruptions.

ii. Removal

- The appointed *Contractor* must isolate and shut down the affected pipe sections as required.
- The appointed *Contractor* must remove the old/worn/damaged/leaking pipes, fittings, and related components.
- The appointed *Contractor* must remove the damaged valves.
- The appointed *Contractor* must properly dispose of removed materials in accordance with the Eskom regulations.

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iii. Repairs

- NO pipe repairs or clamping, all defective/old/worn/damaged/leaking pipework must be replaced, unless approved by the Maintenance Supervisor and/or Engineer. The only repairs that will be accepted are the tightening of fitting, valves, and other related components.

iv. Installation

- The appointed *Contractor* must supply and install new commercial steel pipes, fittings, and associated components.
- The appointed *Contractor* must conduct necessary welding, joining, or sealing operations.
- The appointed *Contractor* must verify proper alignment, support, and insulation of new pipes.
- The appointed *Contractor* must supply and install new valves after identifying all defective valves.
- The appointed *Contractor* must ensure that all new materials meet the required specifications and standards.
- The appointed *Contractor* must restore any disturbed areas to their original condition or as specified in the project requirements.

v. Cleaning

- The appointed *Contractor* must clean the work area and remove any debris or construction materials to the designated waste refusal area.

vi. Testing

- Perform pressure testing and leak detection on newly installed pipes, then issue a report to the Maintenance Supervisor, Quality Practitioner, and Engineer.
- Inspect work for compliance with project specifications and safety standards.
- Address any issues identified during testing or inspection.
- The appointed Contractor must ensure during all the testing, the Maintenance Supervisor, Quality Practitioner and Engineer are invited to witness.

vii. Commissioning

- The appointed *Contractor* must recommission the fire protection system and ensure they are fully operational.

3.2 SAFETY AND COMPLIANCE

- Adhere to all relevant health, safety, and environmental regulations.
- Implement appropriate safety measures and provide necessary personal protective equipment (PPE).
- Ensure all work is performed by qualified personnel.
- Comply with the OSHA (Occupational Safety and Health Act).

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3.3 STANDARDS & CODES

Below are the pipe standards that must be complied to in the execution of the *works*:

[32] ANSI B36.10: Welded and Seamless Wrought Steel Pipe

[33] ASME B36.10M: Welded and Seamless Wrought Steel Pipe

[34] API 5L: Specification for Line Pipe

[35] ASTM A106: Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service

[36] ASTM A53: Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

3.4 CODE COMPLIANCE

Below are the code compliances for Fire Protection System that must be complied to in the execution of the works:

Eskom Fire Protection Standards

[37] Refer to the Informative References^{[8][9][11][12]}.

National Fire Protection Association (NFPA) Code

[38] Refer to the Informative References^{[24][26][27][28][29][30]}.

ASME Piping Codes

[39] ASME B31.1: Power Piping

[40] ASME B31.3: Process Piping

[41] ASTM F2609: Standard Guide for Leak Detection and Pressure Testing of Plastic Pipe.

3.5 QUALITY AND SAFETY COMPLIANCE CODES

[42] Refer to the Normative References^{[1][2][3][4][5][6][7]}.

3.6 RETURNABLES

The *Contractor* must submit the following documents:

- a. Inspection Report as outlined on this SoW.
- b. Method Statement detailing the *works*.
- c. Quality Control Plan templates/samples for the *works*.
- d. The *Contractor* must provide the Quality Control Plan.

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- e. The *Contractor* must provide ISO 9001 Quality Management System or equivalent quality management system certification.

3.7 COMMUNICATION AND REPORTING

- Regular updates to be provided to Contracts Manager on progress (in writing).
- Any issues or changes must be communicated promptly (in writing).

3.8 ACCEPTANCE CRITERIA

- Work will be considered complete when all deliverables are met, testing is successfully performed, and the site is restored.
- Final acceptance will be based on a review of completed work and adherence to the agreed-upon specifications.

3.9 CONTACT INFORMATION

The appointed *Contractor* must share the following information with the *Contracts Manager* and the Maintenance Supervisor:

- Project Manager: [Name, Phone, Email]
- Site Supervisor: [Name, Phone, Email]
- Contractor: [Name, Phone, Email]

4. BILL OF QUANTITIES

Outages BOQ for the works execution:

	Description	Unit	Quantity	Unit Price, R'M	Total Cost, R'M
100	PRELIMINARY & GENERAL				
101	Site Establishment	Each	1	R	R
102	Transport	Km	10 000	R	R
103	Safety, Induction and Medicals etc	Each		R	R
104	Consumables	Each		R	R
105	Tools and Equipment	Each		R	R
106	Crane Truck / Boom Truck	Each		R	R
	SUB-TOTAL				R
200	PERSONELL				
201	Pipe Fitter x 4				R
	Normal Hours	HOURS		R	R
	Weekdays overtime/Saturdays	HOURS		R	R
	Sunday/Public Holidays Overtime	HOURS		R	R
202	Boilermaker x 4				R
	Normal Hours	HOURS		R	R
	Weekdays overtime/Saturdays	HOURS		R	R
	Sunday/Public Holidays Overtime	HOURS		R	R

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203	Assistant x 4				R
	Normal Hours	HOURS		R	R
	Weekdays overtime/Saturdays	HOURS		R	R
	Sunday/Public Holidays Overtime	HOURS		R	R
204	Supervisor x 2				R
	Normal Hours	HOURS		R	R
	Weekdays overtime/Saturdays	HOURS		R	R
	Sunday/Public Holidays Overtime	HOURS		R	R
205	Safety Officer x 2				R
	Normal Hours	HOURS		R	R
	Weekdays overtime/Saturdays	HOURS		R	R
	Sunday/Public Holidays Overtime	HOURS		R	R
206	Rigger x 2				R
	Normal Hours	HOURS		R	R
	Weekdays overtime/Saturdays	HOURS		R	R
	Sunday/Public Holidays Overtime	HOURS		R	R
207	Driver x 1				R
	Normal Hours	HOURS		R	R
	Weekdays overtime/Saturdays	HOURS		R	R
	Sunday/Public Holidays Overtime	HOURS		R	R
	SUB-TOTAL				R
300	WORKS				
301	Cost for Inspections			R	R
302	Cost for Removals			R	R
303	Cost for Installation			R	R
304	Cost for Cleaning			R	R
305	Cost for Testing			R	R
306	Cost for Commissioning			R	R
	SUB-TOTAL				R
400	MATERIAL				
402	Cost of 250 NB pipe replacement	Per meter		R	R
403	Cost of 200 NB pipe replacement	Per meter		R	R
404	Cost of 45° bends (various sizes 200 NB to 200 NB)	Per bend/elbow		R	R
405	Cost of 30° bends (various sizes 200 NB to 200 NB)	Per bend/elbow		R	R
406	Cost of 60° bends (various sizes 200 NB to 200 NB)	Per bend/elbow		R	R
407	Cost of 45° bends (various sizes 250 NB to 250 NB)	Per bend/elbow		R	R
408	Cost of 30° bends (various sizes 250 NB to 250 NB)	Per bend/elbow		R	R
409	Cost of 60° bends (various sizes 250 NB to 250 NB)	Per bend/elbow		R	R
410	Cost of Tee pieces (various sizes 200 NB to 200 NB)	Per T-piece		R	R
411	Cost of Tee pieces (various sizes 250 NB to 250 NB)	Per T-piece		R	R
412	U Bolts (25-50 mm)	Each		R	R
413	U bolts (75-100 mm)	Each		R	R
414	16 mm hanger rods	Each		R	R
415	Brackets	Each		R	R
	SUB-TOTAL				R
	TOTAL (EXCLUDING VAT)				R

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5. AUTHORISATION

This document has been seen and accepted by:

NAME	DESIGNATION
	Senior Artisan, Mechanical Maintenance Department, Kriel P.S.
	Supervisor, Mechanical Maintenance Department, Kriel P.S.
	Engineer, Auxiliary Engineering, Kriel P.S.
	Discipline Manager, Auxiliary Engineering Department, Kriel P.S.
	Senior Artisan, Mechanical Maintenance Department, Kriel P.S.
	Discipline Manager, Mechanical Maintenance Department, Kriel P.S.
	Senior Artisan, Mechanical Maintenance Department, Kriel P.S.
	Senior Engineer, Auxiliary Engineering Department, Kriel P.S.
	Senior Advisor BOP, Maintenance Technical Support

6. REVISIONS

DATE	REV.	COMPILER	REMARKS
September 2024	1.0		First Revision

7. DEVELOPMENT TEAM

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

8. ACKNOWLEDGEMENTS

Not applicable

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