Engineering Scope of Works Arnot

Title:	Renovation of Arnot Power Station Operating cabins & offices:	Document Identifier:	AEAP 0150	
	Cabin 1&2			
	cabin 3&4;	Alternative Reference	25231660	
	cabin 5&6	Number:		
N	North Ash Plant cabin	Area of Applicability:	Eskom	
	South Ash Plant cabin			
	Coal plant toilets (North and South)			
	Outside plant foreman offices & boardroom	Functional Area:	Civil Maintenance, Ops Support Services	
	Operating change rooms & toilets - Males & Female (45 ft level, between boiler & FD fans)			
	Operating tearoom (45 ft level, Unit 4 turbine house)	Revision:	01	
	Operating tearoom & change rooms & toilets (0 ft level)	Total Pages:	32	
	Main Admin control room men's toilets 1,2&3	0		
	Ops Outside Plant foremen's toilets	Next Review Date:	N/A	
		Disclosure	Controlled Disclosure	

Disclosure Classification:

Functional Compiled by Supported by Authorized by Accepted by esponsibility P.P A M.Mosebo W рþ **RC Mosehla** T Kekana M Mosebo T Mokgatle N Zwane **Aux Engineering Aux Engineering Aux Engineering** Engineering **OSSD Manager** (Civil) Manager (Civil) Manager Date: Date: 26/02/2024 15.03.2024 Date: 14.03.2024 Date: Date: 28/02/2024 06.03.2024

Renovation of	Ops	cabins	&	offices	
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1. Introduction

Arnot Power Station requires the renovation of the following cabins at Operating department; cabin 1&2; cabin 3&4; cabin 5&6; North Ash Plant cabin; South Ash Plant cabin; Ops men's toilets; Outside Plant Offices; Ops ladies toilets; Ops Outside Plant foremen's toilets, Ops tearoom, Main control room men's toilets 1,2&3, Coal plant toilets (North and South) 113 ft, Ops change rooms & toilets (male & female).

The objective of the works is to enable Arnot Power Station to use these facilities safely after the completion of works and to allow comfort using these premises.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The Employer's objective for the *works* is to enable Arnot Power Station to use these facilities safely after the completion of works and to allow comfort using these premises.

2.1.2 Applicability

This document is applicable to the following departments at Arnot Power Station:

- Auxiliary Engineering
- Operating department
- Civil Maintenance
- Safety department
- Environmental department

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs and the below standards:

- SANS 1200 General Specifications for Civil Engineers
- SANS 1200 A (1986): General
- SANS 1200 AA (1986): Small works
- SANS 1200 D (1986): Earthworks
- SANS 1200 G (1982): Concrete (structural)
- SANS 1200 GB (1984): Concrete (general buildings)

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- SANS 1200 H (1990): Structural steelwork
- All construction methods and materials used are to be in accordance with the requirements of SANS 10400 and SANS 1200 and all other applicable codes of practice available.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems

2.3 Abbreviations

Abbreviation	Explanation
Ops	Operating department
QCP	Quality Control Plan

2.4 Roles and Responsibilities

- Civil Engineering is responsible for preparation of the scope of works, quality control and technical support during execution of the works.
- Operating will be responsible for the contract management during execution of the works.
- All dimensions and levels to be checked on site by the *Contractor* and correlated with applicable drawings and details before construction or any fabrication of any listed fixtures commences and any discrepancies are to be reported immediately to the Engineer.
- It is the *Contractor's* responsibility to ensure that he understands and complies with all relevant engineering drawings and specifications and is adequately experienced to undertake all aspects of the work safely.
- Toilet concrete slab, toilet roofing, ceiling, handrails, plumbing etc., shall be executed by qualified artisans from the *Contractor*.
- All products specified for use by the *Contractor* are to be used strictly according to manufacturer's instructions and specifications at all times.
- The *Contractor* is at all times to be fully responsible for quality control on site ensuring strict compliance with all works, details and specifications issued for construction by the professional team.

2.5 **Process for Monitoring**

It is expected that where applicable, QCPs and Method Statements will be developed and followed by the *Contractor* to ensure quality of the works.

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3. Description of the work

3.1 Description

Complete renovation of Arnot Power Station Operating cabins and offices as listed in Section 1 and installation of new ablution facilities. It will be the responsibility of the *Contractor* to take measurements and quantities of all the *works* areas to be renovated and verified by the Employer before execution of the *works*.

3.2. An overview of the scope of *works* consists of the following activities:

- Removal of old damaged tiles and cleaning of the cabin areas as per Section 3.3 to 3.28: Cabin 1&2; Cabin 3&4; Cabin 5&6;; Operating change rooms & male toilets (45 ft level, behind boiler 4), Operating change rooms & toilets - Female (45 ft level); North Ash Plant; South Ash Plant; Ops men's toilets; Outside Plant Offices & toilet; Ops ladies toilets; Ops Support ladies toilet; Ops tearoom; main control room men's toilets; main control room ladies toilets, coal plant toilets (below 113 ft level) North and South and Ops Vector Storeroom and toilets.
- Deep cleaning by making use of chemical detergents of the tiled floor areas. The *Contractor* makes use of domestic pressure machine apparatus including the applicable detergents. The pressure range of the cleaning apparatus used is between 10-16 MPa for domestic applications. After cleaning, these surfaces will have a uniform appearance free from streaks, smudges and dust. The entire area will be thoroughly cleaned to remove dust, soil, ash and other surface debris. All areas under chairs, trash receptacles, desks, and other furnishings, which are accessible, will be cleaned as well. After cleaning, surfaces, including corners, abutments, and places accessible to the cleaning equipment will be free of all visible dirt, streaks, litter and spots caused by spills.
- Supply and installation of ceramic tiles on the floor and walls inside the cabins.
- Removals of old carpets and clean the area at Ops Support Services lashing tearoom, Ops Commissioning offices and Ops Support Services Offices.
- Removal of old ceiling and lights leaving the area clean at cabin 1&2; cabin 3&4; cabin 5&6; Ash Plant North; Ash Plant South; Ops men's toilets; Coal plant toilets (x2) below 113 ft, Outside Plant Offices and Ops tearoom. Supply and install of new ceiling and corrosion proof and complete fittings at cabin 1&2; cabin 3&4; cabin 5&6; Ash Plant North; Ash Plant South; Ops tearoom 0 ft level (incl male and female toilets); 3 Ops tearoom 45 ft level, Ops change room 45 ft level, Ops tearoom offices 45 ft level.
- Supply and installation of new lockable kitchen built-in cupboards (wall mounted). The dimensions of each cupboard will be as per the cabin area. The countertop finish to consist of with Granite/quartz Rusternburg colour with double under-mount sink at each cabin area.
- Painting of the toilet roofs and removal and replacement of gutters and fascia boards.
- Replacement of the existing wall mounted fully automatic 10L hydro-boilers.
- Removal of old blinds and curtains leaving the area clean and installation of custom Venetian aluminium blinds on the cabin windows. The *Contractor* should verify the dimensions for the windows before fabrication to customize the blinds to be fitted.

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- Performing plumbing repairs and fixing of all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- Supply and install temporary parkhome for Ash plant south and Ash plant north with electric points and HVAC system and similar approved.

The detailed scope of works includes the following as per the cabin/office areas:

3.3. Cabin 1&2

- 3.3.1. Removal of the existing damaged floor tiles and make good the area.
- 3.3.2. Supply and install ceramic floor tiles
 - 3.3.2.1. Light grey in colour, 330 mm x 330 mm
- 3.3.3. Deep cleaning of the entire floor area.
- 3.3.4. Painting of the ceiling and make good the area.
 - 3.3.4.1.1. Painted with Acrylic PVA white paint
 - 3.3.4.1.2. Install standard Polystyrene cornices on the ceiling edge perimeter.
 - 3.3.4.1.2.1. Upper Edge Z60 Polystyrene Cornice
- 3.3.5. Supply and install new new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard (2x off)
 - 3.3.5.1. Install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard (2x off)
- 3.3.6. All interior walls shall be painted
 - 3.3.6.1. Grecian white paint colour
- 3.3.7. Removal or safe demolishing of existing dividing brick wall in the cabin and make good area (repair, re-plaster and paint the affected areas)
- 3.3.8. Removal of existing deteriorated desk and make good affected areas
- 3.3.9. Removal of the old doors & then supply, install and varnish paint new solid wood fireproof doors with stainless steel handles (2x off)
- 3.3.10. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items
- 3.3.11. Supply and installation the following fixtures and equipment:
 - 3.3.11.1. Perimeter desk mounted to the wall for desktop computers

3.3.11.1.1. Top finish to be gloss

3.3.11.1.2. 3 drawers units lockable (with 4 set drawers)

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3.3.11.1.3. Length: 8 m

- 3.3.11.2. Standard built-in centre table with gloss top finish.
 - 3.3.11.2.1. Dimensions: 2 m x 1,2 m width
- 3.3.11.3. Lockable built-in kitchen cupboards
 - 3.3.11.3.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.3.11.3.2. Dimensions of cupboard: 2 m length
 - 3.3.11.3.3. Granite (Quartz) to be Rustenburg colour countertop finish
 - 3.3.11.3.4. New under-mount double sink with a chrome tap pillars sink mixer
- 3.3.11.4. Interior window blinds (3x off)
 - 3.3.11.4.1. Venetian Aluminium blinds
 - 3.3.11.4.2. Windows opening size:

3.3.11.4.2.1. 1,5 m x 1,1 m height

3.3.11.4.2.2. (2,5 m x 1,2 m height) x2 off

- 3.3.11.5. Air-conditioning unit
 - 3.3.11.5.1. 9000 BTU Wall mounted air conditioning split unit
- 3.3.11.6. Replacement of the existing wall mounted fully automatic 10L hydroboiler (1x off)
 - 3.3.11.6.1. Mounted above built-in kitchen cupboards.

3.4. Cabin 3&4

- 3.4.1. Removal of the existing damaged floor tiles and make good the area.
- 3.4.2. Supply and install ceramic floor tiles
 - 3.4.2.1. Light grey in colour, 330 mm x 330 mm
- 3.4.3. Deep cleaning of the entire floor area.
- 3.4.4. Painting of the ceiling and make good the area.
 - 3.4.4.1.1. Painted with Acrylic PVA white paint
 - 3.4.4.1.2. Install standard Polystyrene cornices on the ceiling edge perimeter.
 - 3.4.4.1.2.1. Upper Edge Z60 Polystyrene Cornice
- 3.4.5. Supply and install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights (2x off)
- 3.4.6. All interior walls shall be painted
 - 3.4.6.1. Grecian white paint colour
- 3.4.7. Removal or safe demolishing of existing dividing brick wall in the cabin and make good area (repair, re-plaster and paint the affected areas)

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- 3.4.8. Removal of existing deteriorated desk and make good affected areas
- 3.4.9. Removal of the old doors & then supply, install and varnish paint new solid wood fireproof doors with stainless steel handles (2x off)
- 3.4.10. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items
- 3.4.11. Supply and installation the following fixtures and equipment:
 - 3.4.11.1. Perimeter desk mounted to the wall for desktop computers
 - 3.4.11.1.1. Top finish to be gloss
 - 3.4.11.1.2.3 drawers units lockable (with 4 set drawers)
 - 3.4.11.1.3. Length: 8 m
 - 3.4.11.2. Standard built-in centre table with gloss top finish.
 - 3.4.11.2.1. Dimensions: 2 m x 1,2 m width
 - 3.4.11.3. Lockable built-in kitchen cupboards
 - 3.4.11.3.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.4.11.3.2. Dimensions of cupboard: 2 m length
 - 3.4.11.3.3. Granite (Quartz) to be Rustenburg colour countertop finish
 - 3.4.11.3.4. New under-mount double sink with a chrome tap pillars sink mixer
 - 3.4.11.4. Interior window blinds (3x off)
 - 3.4.11.4.1. Venetian Aluminium blinds
 - 3.4.11.4.2. Windows opening size:

3.4.11.4.2.1. 1,5 m x 1,1 m height

- 3.4.11.4.2.2. (2,5 m x 1,2 m height) x2 off
- 3.4.11.5. Air-conditioning unit
 - 3.4.11.5.1.9000 BTU Wall mounted air conditioning split unit
- 3.4.11.6. Replacement of the existing wall mounted fully automatic 10L hydroboiler (1x off)
 - 3.4.11.6.1. Mounted above built-in kitchen cupboards.

3.5 Cabin 5&6

- 3.5.1. Removal of the existing damaged floor tiles and make good the area.
- 3.5.2. Supply and install ceramic floor tiles
 - 3.5.2.1. Light grey in colour, 330 mm x 330 mm
- 3.5.3. Deep cleaning of the entire floor area.
- 3.5.4. Painting of the ceiling and make good the area.

3.5.4.1.1. Painted with Acrylic PVA white paint

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3.5.4.1.2. Install standard Polystyrene cornices on the ceiling edge perimeter.

3.5.4.1.2.1. Upper Edge Z60 Polystyrene Cornice

- 3.5.5. Supply and install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights (2x off)
- 3.5.6. All interior walls shall be painted

3.5.6.1. Grecian white paint colour

- 3.5.7. Removal or safe demolishing of existing dividing brick wall in the cabin and make good area (repair, re-plaster and paint the affected areas)
- 3.5.8. Removal of existing deteriorated desk and make good affected areas
- 3.5.9. Removal of the old doors & then supply, install and varnish paint new solid wood fireproof doors with stainless steel handles (2x off)
- 3.5.10. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items
- 3.5.11. Supply and installation the following fixtures and equipment:
 - 3.5.11.1. Perimeter desk mounted to the wall for desktop computers
 - 3.5.11.1.1. Top finish to be gloss
 - 3.5.11.1.2.3 drawers units lockable (with 4 set drawers)
 - 3.5.11.1.3. Length: 8 m
 - 3.5.11.2. Standard built-in centre table with gloss top finish.
 - 3.5.11.2.1. Dimensions: 2 m x 1,2 m width
 - 3.5.11.3. Lockable built-in kitchen cupboards
 - 3.5.11.3.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.5.11.3.2. Dimensions of cupboard: 2 m length
 - 3.5.11.3.3. Granite (Quartz) to be Rustenburg colour countertop finish
 - 3.5.11.3.4. New under-mount double sink with a chrome tap pillars sink mixer
 - 3.5.11.4. Interior window blinds (3x off)
 - 3.5.11.4.1. Venetian Aluminium blinds
 - 3.5.11.4.2. Windows opening size:
 - 3.5.11.4.2.1. 1,5 m x 1,1 m height
 - 3.5.11.4.2.2. (2,5 m x 1,2 m height) x2 off
 - 3.5.11.5. Air-conditioning unit
 - 3.5.11.5.1.9000 BTU Wall mounted air conditioning split unit
 - 3.5.11.6. Replacement of the existing wall mounted fully automatic 10L hydroboiler (1x off)

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3.5.11.6.1. Mounted above built-in kitchen cupboards

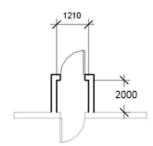
3.6 North ash plant cabin

- 3.6.1. Supply a temporary park home for the workers currently using the North ash plant cabin, with HVAC system and electrical point system while the refurbishment is taking place. Size: 6m x 3m and make good the area. Move the existing furniture from the existing cabin to the temporary cabin, and back once refurbishment is done.
- 3.6.2. Removal of the existing damaged floor tiles and make good the area.
- 3.6.3. Supply and install ceramic floor tiles
 - 3.6.3.1. Light grey in colour, 330 mm x 330 mm
- 3.6.4. Deep cleaning of the entire floor area.
- 3.6.5. Painting of the ceiling and make good the area.
 - 3.6.5.1.1. Paint with Acrylic PVA white paint
 - 3.6.5.1.2. Install standard Polystyrene cornices on the ceiling edge perimeter.
 - 3.6.5.1.2.1. Upper Edge Z60 Polystyrene Cornice
- 3.6.6. Supply and install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard (2x off)
- 3.6.7. All interior walls shall be painted
 - 3.6.7.1. Grecian white paint colour
- 3.6.8. Removal or safe demolishing of existing dividing brick wall in the cabin and make good area (repair, re-plaster and paint the affected areas)
- 3.6.9. Removal of existing deteriorated desk make good affected areas
- 3.6.10. Removal of the old doors & then supply, install and varnish paint new solid wood fireproof doors with stainless steel handles (2x off)
- 3.6.11. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- 3.6.12. Supply and installation the following fixtures and equipment:
 - 3.6.12.1. Perimeter desk mounted to the wall for desktop computers
 - 3.6.12.1.1. Top finish to be gloss
 - 3.6.12.1.2.3 drawers units (5 columns)
 - 3.6.12.1.3. Length: 8 m
 - 3.6.12.2. Standard built-in centre table with gloss top finish.
 - 3.6.12.2.1. Dimensions: 2 m x 1,2 m width
 - 3.6.12.3. Lockable built-in kitchen cupboards

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- 3.6.12.3.1. Size (mm): 450 x 450 built-in lockable cupboards
- 3.6.12.3.2. Dimensions of cupboard: 3 m
- 3.6.12.3.3. Granite (Quartz) to be Rustenburg colour countertop finish
- 3.6.12.3.4. New under-mount double sink with a chrome tap pillars sink mixers.
- 3.6.12.4. Interior window blinds (3x off)
 - 3.6.12.4.1. Venetian Aluminium blinds
 - 3.6.12.4.2. Window opening size: 2 m x 1,8m height
- 3.6.12.5. Air-conditioning unit
 - 3.6.12.5.1. 9000 BTU Wall mounted air conditioning split unit complete
- 3.6.12.6. Replacement of the existing wall mounted fully automatic 10L hydroboiler (1x off)
- 3.6.13. Noise barrier and sound proofing of the North Ash Plant cabin
 - 3.6.13.1. Closure of the existing door entrance with brickwork and make good area (repair, re-plaster and paint the affected areas)
 - 3.6.13.2. Removal of the existing window and opening of a new entrance door (Southern side of the cabin) & extension of the entrance by 2 m long (Sketch 3.6.11.4.2), including roofing, plastering and painting of the walls.
 - 3.6.13.3. Grecian white paint in colour
 - 3.6.13.4. Additional door installation
 - 3.6.13.4.1. Varnish paint new solid wood fireproof doors with stainless steel handles.



3.6.13.4.2.

Installation sketch

3.7 South ash plant cabin

3.7.1. Supply temporary park home for the workers currently using the North ash plant cabin, with HVAC system and electrical point system while the refurbishment is taking place. Size: 6m x 3m and make good the area. Move the existing furniture from the existing cabin to the temporary cabin, and back once refurbishment is done.

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- 3.7.2. Removal of the existing damaged floor tiles and make good the area.
- 3.7.3. Supply and install ceramic floor tiles
 - 3.7.3.1. Light grey in colour, 330 mm x 330 mm
- 3.7.4. Deep cleaning of the entire floor area.
- 3.7.5. Painting of the ceiling and make good the area.
 - 3.7.5.1.1. Painted with Acrylic PVA white paint
 - 3.7.5.1.2. Install standard Polystyrene cornices on the ceiling edge perimeter.
 - 3.7.5.1.2.1. Upper Edge Z60 Polystyrene Cornice
- 3.7.6. Supply and install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard (2x off)
- 3.7.7. All interior walls shall be painted
 - 3.7.7.1. Grecian white paint colour
- 3.7.8. Removal of existing deteriorated desk make good affected areas
- 3.7.9. Removal of the old doors & then supply, install and varnish paint new solid wood fireproof doors with stainless steel handles (2x off)
- 3.7.10. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- 3.7.11. Supply and installation the following fixtures and equipment:
 - 3.7.11.1. Perimeter desk mounted to the wall for desktop computers
 - 3.7.11.1.1. Top finish to be gloss
 - 3.7.11.1.2.3 drawers units (5 columns)
 - 3.7.11.1.3. Length: 8 m
 - 3.7.11.2. Standard built-in centre table with gloss top finish.
 - 3.7.11.2.1. Dimensions: 2 m x 1,2 m width
 - 3.7.11.3. Lockable built-in kitchen cupboards
 - 3.7.11.3.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.7.11.3.2. Dimensions of cupboard: 2 m
 - 3.7.11.3.3. Granite (quartz) to be Rustenburg colour countertop finish
 - 3.7.11.3.4. New under-mount double sink with a chrome tap pillars sink mixers.
 - 3.7.11.4. Interior window blinds (3x off)
 - 3.7.11.4.1. Venetian Aluminium blinds
 - 3.7.11.4.2. Window opening size: 2 m x 1,8m height

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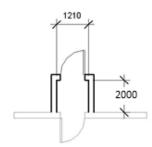
3.7.11.5. Air-conditioning unit

3.7.11.5.1.9000 BTU Wall mounted air conditioning split unit complete

3.7.11.6. Replacement of the existing wall mounted fully automatic 10L hydroboiler (1x off)

3.7.12. Noise barrier and sound proofing of the North Ash Plant cabin

- 3.7.12.1. Closure of the existing door entrance with brickwork and make good area (repair, re-plaster and paint the affected areas)
- 3.7.12.2. Removal of the existing window and opening of a new entrance door (Southern side of the cabin) & extension of the entrance by 2 m long (Sketch 3.7.10.4.2), including roofing, plastering and painting of the walls.
- 3.7.12.3. Grecian white paint in colour
- 3.7.12.4. Additional door installation
 - 3.7.12.4.1. Varnish paint new solid wood fireproof doors with stainless steel handles.



3.7.12.4.2.

Installation sketch

3.8 North Coal plant cabin

- 3.8.1. Removal of the existing damaged floor tiles and make good the areas.
- 3.8.2. Supply and install ceramic floor tiles

3.8.2.1. Light grey in colour, 330 mm x 330 mm

- 3.8.3. Deep cleaning of the entire floor areas.
- 3.8.4. Painting of the ceiling and make good the area.
 - 3.8.4.1.1. Painted with Acrylic PVA white paint
 - 3.8.4.1.2. Install standard Polystyrene cornices on the ceiling edge perimeter.
 - 3.8.4.1.2.1. Upper Edge Z60 Polystyrene Cornice
- 3.8.5. Supply and install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights (4x off)
- 3.8.6. All interior walls shall be painted

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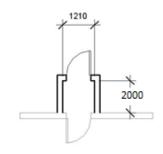
3.8.6.1. Grecian white paint colour

- 3.8.7. Removal of existing deteriorated desk make good affected areas
- 3.8.8. Removal of the old doors & then supply, install and varnish paint new solid wood fireproof doors with stainless steel handles (4x off)
- 3.8.9. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- 3.8.10. Supply and installation the following fixtures and equipment:
 - 3.8.10.1. Perimeter desk mounted to the wall for desktop computers
 - 3.8.10.1.1. Top finish to be gloss
 - 3.8.10.1.2.3 drawers units (5 columns)
 - 3.8.10.1.3. Length: 8 m
 - 3.8.10.2. Standard built-in centre table with gloss top finish
 - 3.8.10.2.1. Dimensions: 2 m x 1,2 m width
 - 3.8.10.3. Lockable built-in kitchen cupboards
 - 3.8.10.3.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.8.10.3.2. Dimensions of cupboard: 2 m
 - 3.8.10.3.3. Granite (quartz) to be Rustenburg colour countertop finish
 - 3.8.10.3.4. New under-mount double sink with a chrome tap pillars sink mixers.
 - 3.8.10.4. Interior window blinds (3x off)
 - 3.8.10.4.1. Venetian Aluminium blinds
 - 3.8.10.4.2. Window opening size: 2 m x 1,8m height
 - 3.8.10.5. Air-conditioning units
 - 3.8.10.5.1.9000 BTU Wall mounted air conditioning split unit complete
 - 3.8.10.6. Replacement of the existing wall mounted fully automatic 10L hydroboiler
- 3.8.11. Noise barrier and sound proofing of the cabins
 - 3.8.11.1. Closure of the existing door entrance with brickwork and make good area (repair, re-plaster and paint the affected areas)
 - 3.8.11.2. Removal of the existing window and opening of a new entrance door (Southern side of the cabin) & extension of the entrance by 2 m long (Sketch 3.8.11.4.2), including roofing, plastering and painting of the walls.
 - 3.8.11.3. Grecian white paint in colour
 - 3.8.11.4. Additional door installation

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3.8.11.4.1. Varnish paint new solid wood fireproof doors with stainless steel handles.



3.8.11.4.2.

Installation sketch

3.9 South Coal plant cabin

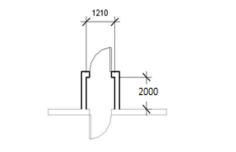
- 3.9.1. Removal of the existing damaged floor tiles and make good the areas.
- 3.9.2. Supply and install ceramic floor tiles
 - 3.9.2.1. Light grey in colour, 330 mm x 330 mm
- 3.9.3. Deep cleaning of the entire floor areas.
- 3.9.4. Painting of the ceiling and make good the area.
 - 3.9.4.1.1. Painted with Acrylic PVA white paint
 - 3.9.4.1.2. Install standard Polystyrene cornices on the ceiling edge perimeter.
 - 3.9.4.1.2.1. Upper Edge Z60 Polystyrene Cornice
- 3.9.5. Supply and install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights (4x off)
- 3.9.6. All interior walls shall be painted
 - 3.9.6.1. Grecian white paint colour
- 3.9.7. Removal of existing deteriorated desk make good affected areas
- 3.9.8. Removal of the old doors & then supply, install and varnish paint new solid wood fireproof doors with stainless steel handles (4x off)
- 3.9.9. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- 3.9.10. Supply and installation the following fixtures and equipment:
 - 3.9.10.1. Perimeter desk mounted to the wall for desktop computers
 - 3.9.10.1.1. Top finish to be gloss
 - 3.9.10.1.2.3 drawers units (5 columns)

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3.9.10.1.3. Length: 8 m

- 3.9.10.2. Standard built-in centre table with gloss top finish
 - 3.9.10.2.1. Dimensions: 2 m x 1,2 m width
- 3.9.10.3. Lockable built-in kitchen cupboards
 - 3.9.10.3.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.9.10.3.2. Dimensions of cupboard: 2 m
 - 3.9.10.3.3. Granite (quartz) to be Rustenburg colour countertop finish
 - 3.9.10.3.4. New under-mount double sink with a chrome tap pillars sink mixers.
- 3.9.10.4. Interior window blinds (3x off)
 - 3.9.10.4.1. Venetian Aluminium blinds
 - 3.9.10.4.2. Window opening size: 2 m x 1,8m height
- 3.9.10.5. Air-conditioning units
 - 3.9.10.5.1.9000 BTU Wall mounted air conditioning split unit complete
- 3.9.10.6. Replacement of the existing wall mounted fully automatic 10L hydroboiler
- 3.9.11. Noise barrier and sound proofing of the cabins
 - 3.9.11.1. Closure of the existing door entrance with brickwork and make good area (repair, re-plaster and paint the affected areas)
 - 3.9.11.2. Removal of the existing window and opening of a new entrance door (Southern side of the cabin) & extension of the entrance by 2 m long (Sketch 3.8.11.4.2), including roofing, plastering and painting of the walls.
 - 3.9.11.3. Grecian white paint in colour
 - 3.9.11.4. Additional door installation
 - 3.9.11.4.1. Varnish paint new solid wood fireproof doors with stainless steel handles.
 - 3.9.11.4.2.



3.9.11.4.3.



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3.10 Outside plant foremen offices & boardroom

- 3.10.1. Removal of the existing damaged floor tiles and make good the area by deep cleaning.
- 3.10.2. Supply and install ceramic floor tiles on the passage area
 - 3.10.2.1. Light grey in colour, 330mm x 330mm floor tiles matching existing Eskom standard tiles (GN- 553 Granito Charcoal or similar approved)
- 3.10.3. Painting of the existing ceiling and make good area.
 - 3.10.3.1.1. Painted with Acrylic PVA white paint
- 3.10.4. Supply and install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights (8x off)
- 3.10.5. Removal of the existing vinyl coating and all interior walls should be painted
 - 3.10.5.1. Grecian white paint colour
- 3.10.6. Removal of existing deteriorated desk make good affected areas
- 3.10.7. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- 3.10.8. Supply and installation the following fixtures and equipment:
 - 3.10.8.1. Perimeter desk mounted to the wall for desktop computers
 - 3.10.8.1.1. Top finish to be gloss
 - 3.10.8.1.2.3 drawers units (5 columns)
 - 3.10.8.1.3. Length: 8 m
 - 3.10.8.2. Lockable built-in kitchen cupboards
 - 3.10.8.2.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.10.8.2.2. Dimensions of cupboard: 5 m
 - 3.10.8.2.3. Granite (quartz) to be Rustenburg colour countertop finish
 - 3.10.8.2.4. New UNDER-MOUNT double sink with a chrome tap pillars sink mixers.
 - 3.10.8.3. Air-conditioning unit (3x off)
 - 3.10.8.3.1. 9000 BTU Wall mounted air conditioning split unit complete
 - 3.10.8.4. Replacement of the existing wall mounted fully automatic 10L hydroboiler (1x off)

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3.11 Ops men's toilets 1&2 (45 ft level corridor)

- 3.11.1. Removal of the existing damaged floor tiles and make good the area by deep cleaning.
- 3.11.2. Supply and install ceramic floor & wall tiles
 - 3.11.2.1. Floor: "Nacros tiles" (ex Johnson tiles) 330 x 330 mm class IV "Napoli NL 619 Light Grey" ceramic floor tiles with "Tal" with professional adhesive.
 - 3.11.2.2. Wall: 330mm x 330mm floor tiles
- 3.11.3. Removal of old ceiling and make good area
- 3.11.4. Supply and install new ceiling and new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights
 - 3.11.4.1. 9,0 mm Rhino ceiling boards screwed onto the existing 32mm x 32mm purlins with Fiba-tape over the joints
 - 3.11.4.2. Plastering of the complete ceiling with Rhinolite, painted with white (latex) paint
 - 3.11.4.3. Install Polystyrene cornices
 - 3.11.4.4. new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard (x2 off)
- 3.11.5. Make good all interior walls areas
 - 3.11.5.1. Grecian white paint colour
- 3.11.6. Supply and install the following sanitary fixtures:
 - 3.11.6.1. New (x 3 off) wash basins with taps
 - 3.11.6.1.1. Isca Sanpride style basin mixer large or similar approved type
 - 3.11.6.1.2. Taps: One set "Cobra Star Undertile" stop tap Chrome
 - 3.11.6.2. Toilet pots (x 3 off)
 - 3.11.6.2.1. Ceramic material: Shortland/cistern compact box suite with Dual top-flush toilet system and toilet seat
 - 3.11.6.2.2. White in colour
 - 3.11.6.3. Shower closets in toilet 2 (x 1 off)
 - 3.11.6.3.1. Shower head: "Cobra Vandal-resistant KP2.6" chrome plated Overhead Shower head or similar approved
 - 3.11.6.3.2. Traps: "Cobra 373" Rough Brass Shower "P" Trap with shallow seal and chrome plated grating.
 - 3.11.6.4. Standard Chrome toilet roll holders (x 2 off) affixed to the wall
 - 3.11.6.5. Bathroom mirrors (x 2 off)
 - 3.11.6.6. Frameless rectangular mirrors (x 2 off)

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3.11.6.6.1. Size: 700 x 450 x 3mm

- 3.11.6.7. Standard Chrome towel rails affixed close to the shower closets (x 2 off)
- 3.11.6.8. Painting of roofs and removing and replacing of gutters and fascia boards

3.12 Ops ladies toilets (45 ft level corridor opposite to males toilet 2)

- 3.12.1. Removal of the existing damaged floor tiles and make good the area by deep cleaning.
- 3.12.2. Supply and install ceramic floor & wall tiles
 - 3.12.2.1. Floor: "Nacros tiles" (ex Johnson tiles) 330 x 330 mm class IV "Napoli NL 619 Light Grey" ceramic floor tiles with "Tal" with professional adhesive.
 - 3.12.2.2. Wall: 330mm x 330mm floor tiles
- 3.12.3. Removal of old ceiling & 2x lights and make good area
- 3.12.4. Supply and install new ceiling and 2x new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights
 - 3.12.4.1. 9,0mm Rhino ceiling boards screwed onto the existing 32mm x 32mm purlins with Fiba-tape over the joints
 - 3.12.4.2. Plastering of the complete ceiling with Rhinolite, painted with white (latex) paint
 - 3.12.4.3. Install Polystyrene cornices
 - 3.12.4.4. Install new corrosion new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard
- 3.12.5. Make good all interior walls areas without tiling
 - 3.12.5.1. Grecian white paint colour
- 3.12.6. Supply and install the following sanitary fixtures:
 - 3.12.6.1. New (x 2 off) wash basins with taps
 - 3.12.6.1.1. Isca Sanpride style basin mixer large or similar approved type
 - 3.12.6.1.2. Taps: One set "Cobra Star Undertile" stop tap Chrome
 - 3.12.6.2. Toilet pots (x 5 off)
 - 3.12.6.2.1. Ceramic material: Shortland/cistern compact box suite with Dual top-flush toilet system and toilet seat
 - 3.12.6.2.2. White in colour
 - 3.12.6.3. Shower closets
 - 3.12.6.3.1. Shower head: "Cobra Vandal-resistant KP2.6" chrome plated Overhead Shower head or similar approved

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- 3.12.6.3.2. Traps: "Cobra 373" Rough Brass Shower "P" Trap with shallow seal and chrome plated grating.
- 3.12.6.4. Standard Chrome toilet roll holders (x 2 off) affixed to the wall
- 3.12.6.5. Bathroom mirrors (x 2 off)
- 3.12.6.6. Frameless rectangular mirrors (x 2 off)
 - 3.12.6.6.1. Size: 700 x 450 x 3mm
- 3.12.6.7. Standard Chrome towel rails affixed close to the shower closets (x 2 off)

3.13 Ops Outside Plant foremen's toilets

- 3.13.1. Removal of the existing damaged floor tiles and make good the area by deep cleaning.
- 3.13.2. Supply and install ceramic floor & wall tiles
 - 3.13.2.1. Floor: "Nacros tiles" (ex Johnson tiles) 330 x 330 mm class IV "Napoli NL 619 Light Grey" ceramic floor tiles with "Tal" with professional adhesive.
 - 3.13.2.2. Wall: 330mm x 330mm floor tiles
- 3.13.3. Removal of old ceiling & 2x lights and make good area
- 3.13.4. Supply and install new ceiling and 2x new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard lights
 - 3.13.4.1. 9,0mm Rhino ceiling boards screwed onto the existing 32mm x 32mm purlins with Fiba-tape over the joints
 - 3.13.4.2. Plastering of the complete ceiling with Rhinolite, painted with white (latex) paint
 - 3.13.4.3. Install Polystyrene cornices
 - 3.13.4.4. Install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard
- 3.13.5. Make good all interior walls areas without tiling
 - 3.13.5.1. Grecian white paint colour
- 3.13.6. Supply and install the following sanitary fixtures:
 - 3.13.6.1. New (x 2 off) wash basins with taps
 - 3.13.6.1.1. Isca Sanpride style basin mixer large or similar approved type
 - 3.13.6.1.2. Taps: One set "Cobra Star Undertile" stop tap Chrome
 - 3.13.6.2. Toilet pots (x 5 off)
 - 3.13.6.2.1. Ceramic material: Shortland/cistern compact box suite with Dual top-flush toilet system and toilet seat
 - 3.13.6.2.2. White in colour

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3.13.6.3. Shower closets

- 3.13.6.3.1. Shower head: "Cobra Vandal-resistant KP2.6" chrome plated Overhead Shower head or similar approved
- 3.13.6.3.2. Traps: "Cobra 373" Rough Brass Shower "P" Trap with shallow seal and chrome plated grating.
- 3.13.6.4. Standard Chrome toilet roll holders (x 2 off) affixed to the wall
- 3.13.6.5. Bathroom mirrors (x 2 off)
- 3.13.6.6. Frameless rectangular mirrors (x 2 off)

3.13.6.6.1. Size: 700 x 450 x 3mm

- 3.13.6.7. Standard Chrome towel rails affixed close to the shower closets (x 2 off)
- 3.13.6.8. Painting of roofs and removing and replacing of gutters and fascia boards

3.14 Main Admin control room men's toilets 1,2&3.

- 3.14.1. Re-grouting of all the existing floor & wall tiles and make good by cleaning
- 3.14.2. Make good all interior walls areas without tiling
 - 3.14.2.1. Grecian white paint colour
- 3.14.3. Structural modification to convert the existing urinal area to a toilet closet
 - 3.14.3.1. Removal of the existing urinal (1x off) and plumbing fittings and make good the wall
 - 3.14.3.2. Construction of a new brick wall for toilet closet enclosure with an access door (similar to the adjacent closet) and make good area (repair, replaster and paint the affected areas).
 - 3.14.3.2.1. Supply and install a door and a frame (painted)
 - 3.14.3.3. Supply and install a new toilet systems with fittings of specification Betta Mirage Close Couple Suite with Seat White (2 Piece pan and suite with a top flush mechanism).
 - 3.14.3.3.1. White in colour
 - 3.14.3.4. Reference drawing 2699-007-01 Sht 8

3.15 Operating tearoom, change rooms and male & female toilets (0 ft level)

- 3.15.1. Removal of all the existing old floor & wall tiles and make good
- 3.15.2. Supply and install ceramic floor & wall tiles
 - 3.15.2.1. Floor: "Nacros tiles" (ex Johnson tiles) 330 x 330 mm class IV "Napoli NL 619 Light Grey" ceramic floor tiles with "Tal" with professional adhesive.
 - 3.15.2.2. Wall: 330mm x 330mm floor tiles
- 3.15.3. Supply and installation of new inter-locking vinyl tiles

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- 3.15.3.1. Material and type of vinyl tiles: PVC, medallion exposed, non-slip, durable and inter-locking vinyl tiles.
- 3.15.3.2. Vinyl colour: Dove grey.
- 3.15.3.3. Size of tile: 500 x 500 mm
- 3.15.4. Repainting of ceiling & 6x lights and make good area
 - 3.15.4.1. Repainting with white (latex) paint
 - 3.15.4.2. Install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard
- 3.15.5. All interior walls to be painted
 - 3.15.5.1. Grecian white paint color
- 3.15.6. Replace and make good main doors (x 1 off)
 - 3.15.6.1. Supply and installation of new light-duty auto door closer on main access doors.
 - 3.15.6.1.1. QS700 door closer, size 2-5 with designer arm, silver.
- 3.15.7. Supply and install the following fixtures:
 - 3.15.7.1. Lockable built-in kitchen cupboards
 - 3.15.7.1.1. Size (mm): 450 x 450 built-in lockable cupboards
 - 3.15.7.1.2. Dimensions of cupboard: 6 m
 - 3.15.7.1.3. Granite/quartz Rusternburg colour countertop finish
 - 3.15.7.1.4. New UNDER-MOUNT double sink with a chrome tap pillars sink mixers.
 - 3.15.7.2. Window blinds (interior) (x 5 off)
 - 3.15.7.2.1. Window opening size:
 - 3.15.7.2.1.1. 2,5 m x 1,8m height
 - 3.15.7.2.1.2. 1,5 m x 1,1m height
 - 3.15.7.3. Air-conditioning unit
 - 3.15.7.3.1. 9000 BTU Wall mounted air conditioning split unit complete
 - 3.15.7.4. Replacement of the existing wall mounted fully automatic 10L hydroboiler (1x off)
- 3.15.8. Supply and install the following sanitary fixtures and repairs in the *female* toilets:
 - 3.15.8.1. Toilet pots (x8 off)
 - 3.15.8.1.1. Ceramic material: Shortland/cistern compact box suite with Dual top-flush toilet system and toilet seat
 - 3.15.8.1.2. White in colour
 - 3.15.8.1.3. Supply and install stainless steel handles with locks for toilet doors (x 8 off)

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- 3.15.8.1.4. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- 3.15.8.2. Shower closets (x 4 off)
 - 3.15.8.2.1. Shower head: "Cobra Vandal-resistant KP2.6" chrome plated Overhead Shower head or similar approved
 - 3.15.8.2.2. Traps: "Cobra 373" Rough Brass Shower "P" Trap with shallow seal and chrome plated grating.
 - 3.15.8.2.3. Supply and install a door and a frame (painted)
- 3.15.8.3. Replace basins taps and basins (x5 off)
 - 3.16.1.4.1. Isca Sanpride style basin mixer large or similar approved type
 - Taps: One set "Cobra Star Undertile" stop tap Chrome
- 3.15.8.4. Removal of all the existing old floor & wall tiles and make good
- 3.15.8.5. Supply and install ceramic floor & wall tiles

Floor: "Nacros tiles" (ex Johnson tiles) 330 x 330 mm class IV "Napoli NL 619 Light Grey" ceramic floor tiles with "Tal" with professional adhesive.

Wall: 330mm x 330mm floor tiles

- 3.15.9. Removal of old ceiling (290m²) and make good area
 - 3.15.9.1. 9,0 mm Rhino ceiling boards screwed onto the existing 32mm x 32mm purlins with Fiba-tape over the joints
 - 3.15.9.2. Plastering of the complete ceiling with Rhinolite, painted with white (latex) paint
 - 3.15.9.3. Install Polystyrene cornices
 - 3.15.9.4. Install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard (x2 off)
- 3.15.10. Supply and install standard Chrome towel rails affixed close to the shower closets (x 2 off)
- 3.15.11. Supply and install frameless rectangular mirrors (x 2 off)

Size: 700 x 450 x 3mm

3.15.12. Make good all interior walls areas and paint with Grecian white paint colour

3.15.13. Supply and install the following sanitary fixtures and repairs in the <u>male</u> toilets:3.15.13.1. Replace basin taps and basins (x12 off)

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- 3.15.13.1.1. Isca Sanpride style basin mixer large or similar approved type
- 3.15.13.1.2. Taps: One set "Cobra Star Undertile" stop tap Chrome
- 3.15.13.2. Toilet pots (x 12 off)
 - 3.15.13.2.1. Ceramic material: Shortland/cistern compact box suite with Dual top-flush toilet system and toilet seat
 - 3.15.13.2.2. White in colour
 - 3.15.13.2.3. Supply and install stainless steel locks for toilet doors (x 12 off)
 - 3.15.13.2.4. Perform plumbing repairs and fix all the leaking water pipes and make good affected areas. All the repair works and installation of new sanitary components shall include new piping, fittings and all necessary ancillary items.
- 3.15.13.3. New Shower closets (x 4 off)
 - 3.15.13.3.1. Shower head: "Cobra Vandal-resistant KP2.6" chrome plated Overhead Shower head or similar approved
 - 3.15.13.3.2. Traps: "Cobra 373" Rough Brass Shower "P" Trap with shallow seal and chrome plated grating.
 - 3.15.13.3.3. Supply and install a door and a frame (painted) on each.
- 3.15.13.4. Medium urinals White (x4 off)
 - 3.15.13.4.1. Wall mounted to lip with a flushmaster and flush pipe
- 3.15.14. Structural modification to convert the existing urinal area to shower closets
 - 3.15.14.1. Removal of the existing urinal (4x off) and plumbing fittings and make good the wall
 - 3.15.14.2. Construction of a new brick walls for shower closet enclosures with an access door (similar to the adjacent closet) and make good area (repair, re-plaster and paint the affected areas).
 - 3.15.14.2.1. Supply and install a doors and frames (painted)
- 3.15.15. Removal of all the existing old floor & wall tiles and make good
- 3.15.16. Supply and install ceramic floor & wall tiles
 - 3.15.16.1. 150 m² Floor: "Nacros tiles" (ex Johnson tiles) 330 x 330 mm class IV "Napoli NL 619 Light Grey" ceramic floor tiles with "Tal" with professional adhesive.
 - 3.15.16.2. Wall: 330mm x 330mm floor tiles
- 3.15.17. Removal of old ceiling (290m²) and make good area
 - 3.15.17.1. 9,0 mm Rhino ceiling boards screwed onto the existing 32mm x 32mm purlins with Fiba-tape over the joints
 - 3.15.17.2. Plastering of the complete ceiling with Rhinolite, painted with white (latex) paint
- 3.15.18. Install Polystyrene cornices
 - 3.15.18.1. Painting with white (latex) paint

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- 3.15.18.2. Install new corrosion proof Lascon C10-HO-54W LED or similar approved LED type with lumens, system power and LED lifespan specification as per the new standard (x3 off)
- 3.15.19. Make good all interior walls areas and paint with grecian white paint colour
- 3.15.20. Supply and install standard Chrome towel rails affixed close to the shower closets (x 2 off)
- 3.15.21. Supply and install frameless rectangular mirrors (x 4 off)

Size: 700 x 450 x 3mm

4. Quality control plan

An activities schedule QCP must be provided with hold points to be signed off by the Employers' representatives.

The Contractor complies with the Employers Quality Requirements and ISO 9001.

5. Safety

The *Contractor* is to prepare safety file with related risk assessments for all works to be performed on site.

The *Contractor* is to provide all safety related equipment to complete the works.

The *Contractor* is to provide solid barricading around the work area.

The *Contractor* complies with the Employers safety requirements as stipulated in Arnot Power Station *Contractor Health and Safety Requirements Doc no 32-136* and latest revision of the OHS act and construction regulations. Documents will be made available on request.

6. Environment

Removal of waste material

The *Contractor* must make provision for the removal of all waste produced from his activities. This must be done on a landfill site other than the one at the Rietkuil property. The *Contractor* must identify this site and add it to his method statement.

The *Contractor* should note that during work it will be his responsibility to dispose all the waste into the skips or containers that will be provided by the Employer, once the skips are full the *Contractor* to inform the Project Leader that the skips are full so that a new skips can be placed.

The *Contractor* will not be allowed to store any waste on the station for a period longer than 7 calendar days. This area should be barricaded with solid barricading.

Where and if the *Contractor* must dispose of hazardous chemicals:

- The *Contractor* must outline where they will be disposing.
- The permit of the disposal site must be provided.
- A safe disposal cert. which is stamped and has the relevant signatures must be provided.

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7. Specifications

All work shall be performed in strict accordance with the following specifications, drawings and other documents, which by this reference, are made part hereof;

The latest revisions of the applicable SANS 1200 standardized specifications shall apply to the work.

Title	Date or revision	Tick if publicly available
General Specifications:		\checkmark
SHE specifications to be met by Contractors	Rev 1	\checkmark
Supplier contract quality requirements specification	Rev 0	\checkmark
Eskom lifesaving rules		\checkmark
Eskom vehicle safety specification	Rev 4	\checkmark
Occupational Health and Safety Act 85 of 1993, amended	Amended	 ✓
Technical specifications		
SANS 1200 Series		\checkmark
Standard System of Measuring Building Work	Sixth Edition Revision 1999	1
Model Preambles for all Trades	1995 Edition	\checkmark
The National Building Regulations(NBR) and "Code of Practice for the application of the National Building Regulations" SANS 10400	1990 Edition as amended 30 May 2008	✓
Accuracy in Buildings SANS 10155	2009 Edition 1.2	

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General notes and specifications

Ceramic tiles notes:

- ✓ Size for each tile: 330 mm x 330 mm
- ✓ Colour: GN- 553 Granito Charcoal or similar approved
- ✓ Tile spacing size: 2mm
- ✓ Tile colour: light grey
- Grout joints with a waterproof grout

Carpets notes:

- ✓ Type of carpet: Van Dyck PowerPoint.
- ✓ Carpet colour: Jacaranda.
- ✓ Pile Fibre: 100% PFX Stain Shield Staple Fibre.
- ✓ Backing: Plain back.
- ✓ Fibre Weight: 650 gsm.
- ✓ Total Thickness: 5.5 mm.
- ✓ Protective Finish: Stain Shield.
- ✓ Location grade: Medium Commercial.
- ✓ Protection: Stain Shield Fibre.
- ✓ Bill of Quantities: Broadloom, Plain back, Powerpoint Earth made from 100% PFX Stain Shield Staple Fibre, laid in accordance with the code of practice for the installation of textile floor coverings (SANS 10186).

Inter-locking vinyl tiles notes:

- ✓ Material and type of vinyl tiles: PVC, medallion exposed, non-slip, durable and interlocking vinyl tiles.
- ✓ Vinyl colour: Dove grey.
 ✓ Size of tile: 500 mm x 500 mm

Ceiling and lighting notes:

- ✓ Type of ceiling: Plastered ceiling material which consists of 9,0mm "Rhino" gypsum plasterboard screwed to and including 32mm x 32mm branders with Fiba-tape over the joints of the boards and Polystyrene cornices.
- ✓ Type and colour of paint for the ceiling: water based white (latex) paint.
- ✓ Lights fitted in the ceiling: each cabin to be fitted with lights enough for each room as prescribed in each area under Section 3.

Toilet roofs paint notes:

- ✓ Appearance: Mid sheen fire retardant paint.
- ✓ Colour of paint. Mid-brown.
- ✓ Binder type Acrylic Polymer

Hydro-boiler notes:

- ✓ Colour: white epoxy finish.
- ✓ Type: Twin chamber instant boiling water heater.
- ✓ Capacity: 10 liter.
- ✓ Phase Voltage: Single 220V.

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- ✓ Heating element: 2.4 kW.
- ✓ Temperature control: thermal thermostat.
- ✓ Boiling Chambers: copper boiling and cistern chambers.
- ✓ Outer case: Corrosion resistant white powder coated zinc seal (epoxy coated).
- ✓ Insulation: Rockwool insulation panels engineered for quick access to boiling chamber ports.
- ✓ Safety features: thermal cut-out to protect against over-boiling complications occurring during water supply interruption and a blocked vent pipe.
- ✓ Dimensions: H, 630mm X W, 340mm and D, 205mm.

Air conditioning notes:

The 9000 BTU AC/Heater Hi-Wall Split Unit (R410a Inverter).

Counter tops notes:

All counter tops supplied are 30mm thick long permanent Granite/quartz Rusternburg colour countertop installed inside the cabins. Countertops will be used as work bench for staff and for kitchen units.

8. Drawings

Drawing nr.	Station	Name
2699-007-01 Sht 8	Arnot Power station	Main Admin Building – Third Floor _ Floor Plan

9. Acceptance

This document has been seen and accepted by:

Name	Designation	
MI Mathobela	Project Manager	
M Mosebo	Aux Engineering Manager	
T Mokgatle	Engineering Manager	
N Zwane	Operating Support Supervisor	

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10. Revisions

Date	Rev.	Compiler	Remarks
08 February 2023	00	M Nkgapele	Final document
25 February 2024	01	RC Mosehla	Scope revised: Coal plant cabins scope removed; coal plant toilet refurbishment scope added. Items and specifications added under other cabins.

11. Acknowledgements

N Zwane (Operating support)

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