 Eskom	Specification	Tutuka Power Station
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Title: **The provision of ablution facility unit 01 to 06 on an as 'as and when required' basis**

Document Identifier:

Alternative Reference Number:

Area of Applicability: **Tutuka Power Station**




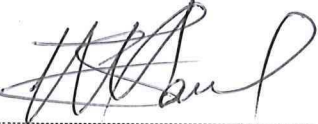
Functional Area: **<e.g. Human Resources, Finance, Engineering, etc.>**

Revision: **2**

Total Pages: **12**

Next Review Date: **February 2029**

Disclosure Classification: **Controlled Disclosure**

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Date: 01/08/2025	Date: 01/08/2025	Date: 07.08.2025	Date: 07/08/2025

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### CONTROLLED DISCLOSURE

## **1. Introduction**

Tutuka Power Station Management has taken a decision to outsource the provision of ablution facility on unit 01- 06 as and when required basis during Outages to a suitably qualified, experienced, and well-established Contractor. Workplace sanitation facilities in South Africa should meet the legislative requirements as a minimum, but readily incorporate new technologies that are eco-friendly and befitting local culture and context to create facilities that uphold and support the health and safety of employees.

This document describes the detail of the applicable plant areas, scope of work, standards, quality, requirements, specifications, terms & conditions as well as the criteria to qualify for the tender.

## **2. Supporting Clauses**

### **2.1 Scope**

This document gives a detailed scope of work for Provision of Ablution Facilities across Units 01- 06 on an as and when required basis. The scope of work is to enable the contractor to compile and submit a quotation of required services. The scope will be on an as and when required basis.

#### **2.1.1 Purpose**

The purpose of this document is to define the specified Ablution Facility on Unit 01- 06 on an as and when required basis. The station is expected to adhere to regulatory standards requiring accessible sanitary provisions for employees. 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.

#### **2.1.2 Applicability**

This document is applicable to Tutuka Power Station.

#### **2.1.3 Effective date**

This document will be effective from the date of authorisation.

## **2.2 Normative/Informative References**

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

Adequate sanitation and hand washing facilities should be available on the premises for use by employees, contractors and visitors, in accordance with Part F, P and Q of the SANS 10400; including those for people with disabilities.

### **2.2.1 Normative**

[1] ISO 9001 Quality Management Systems

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- [2] 240-106963417 Tutuka Power Station Environmental Management requirements for Contract and Supplier
- [3] 240-105776552 Tutuka Power Station Waste Management
- [4] OHSAct Occupational Health and Safety Act, 85 of 1993
- [5] OCCUPATIONAL HEALTH AND SAFETY ACT, 1993. CONSTRUCTION REGULATIONS, 2014
- [6] SANS 10400 - The application of the National Building Regulations

### 2.2.2 Informative

- [7] ISO 14001: 2004 Environmental Management System.

## 2.3 Definitions

Definition	Explanation
Contractor	Service provider contracted to provide a specific service to Eskom, Tutuka Power Station.
Employee	Person employed by Eskom, Tutuka Power Station or the Contractor
Employer	Eskom, or Eskom Tutuka Power Station or representative
Hygiene	Conditions or practices conducive to maintaining health and preventing disease, especially through cleanliness
Site	All plant and equipment installed in the boundary fences of Tutuka Power Station

## 2.4 Abbreviations

Abbreviation	Description
OEM	Original Equipment Manufacturer
AP	Appointed Person
BOP	Balance Of Plant
SOW	Scope of Work
kW	Kilo Watt
M/L	Meter Level
OHSACT	Occupational Health and Safety Act, 85 of 1993
L	Litre
HP	High Pressure
PCM	Process Control Manual
PCLF	Planned Capability Loss Factor
UCF	Unit Capability Factor
UCLF	Unplanned Capability Loss Factor
QA	Quality Assurance
QC	Quality Control
SANS	South African National Standards

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## 2.5 Roles and Responsibilities

Table below outlines the line of responsibility, accountability, and relevant stakeholders to be consulted and informed.

Responsible	Accountable	Consult	Inform
Contract Supervisor	Service Manager	<ul style="list-style-type: none"><li>- Civil Engineering Manager</li><li>- Civil Engineer</li><li>- Support Services Manager</li><li>- Snr Advisor Occupational Health &amp; Safety</li><li>- Environmental Officer</li></ul>	Risk, Procurement, Operating and Engineering
Assurance that all action listed in this procedure are undertaken (follow up, advice, consultation)	Implementation of this procedure, random reviews and audits for adherence, provide assurance that any deviations will be	Provide support, advice and communication with outside stakeholders where needed.	Planning and advice

### 2.5.1 The Employer

- Inform and issue the SOW to the contractor
- Ensure the SOW is issued to the Contractor in time to allow planning for the Outage
- Performance is measured by the Employer against those areas which contribute to the Employer's business.
- Employer shall provide training for LAR any other training as deemed necessary by the Employer in line with the scope requirements.
- The Employer and Contractor in this SOW is committed towards the following.
  - Retention of critical skills
  - Continuous cost reduction
  - Health & Environment Safety
  - Transfer of operational experience

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### 2.5.2 The Contractor

- a) Comply with the Employer's Environmental, Health and Safety standards, policies and procedures
- b) The Contractor shall compile improvement programmes to enhance plant performance and achieve cost reductions and the Employer will approve such programmes.
- c) The Contractor shall be responsible for waste disposal and cleaning as per the Employer's instructions.
- d) The Contractor shall be responsible for the for rigging ablution facility as per employers' instructions and support occupational hygiene requirement but not limited to level below.
  - i. 0 ML
  - ii. 16 ML
  - iii. 57 ML
  - iv. 76 ML
  - v. 81 ML
  - vi. All other related plant areas as per instruction of the employer.
- e) The following complementary services to improve Plant and labour performance can be defined as follows;
  - i. Project management
  - ii. Value engineering
  - iii. Procedure and documentation writing
  - iv. Compile and improve task lists
- f) The contractor is to ensure that any service rendered does not interfere with the Employer's scheduled work and should align himself with the Employer's work control management process.
- g) Should the Employer become aware of any changes to the activity schedule (programme of notifications), the Employer may issue the Contractor with a revised programme.
- h) The contract entered into with the Contractor is non-exclusive and work against this contract can only be performed upon receipt of a task order.
- i) The Contractor shall employ a competent person who is accredited and responsible to perform all statutory plant tests with regards to this SOW
- j) All works will be subject to anytime inspection by the Employer.
- k) The Contractor shall take cognisance of the fact that the contract start date can deviate.
- l) The Contractor to provide resources required to execute this scope and any changes to the crew must be negotiated and agreed upon with the Employer.
- m) This contract is for outage SOW and any other breakdowns that the Contractor will be required to perform within the scope boundaries of this contract.

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- n) Spillage is viewed to be very important for plant housekeeping and any spillage caused as a result of the Contractor shall be immediately cleaned by the Contractor.
- o) The Contractor must ensure they have LAR training to walk the plant.
- p) The Contractor to provide equipment and tools required for safe rigging of ablution facility.
- q) The Contractor shall participate in improvement programs as stipulated by the employer.
- r) Contractor vehicles to comply with Eskom Vehicle Standards and Procedures.
- s) During Outages it is expected that the contractor will provide on-site representation on a 24-hour basis, seven days a week if required. Shift times: 07h00 to 19h00, 19h00 to 07h00 or whichever times that will be agreed between two parties.
- t) All additional personnel and scope of work to be clarified with the Employer prior to work being done.
- u) Will be required to comply with the Employers process control manuals (PCM) that outlines the outage processes.

#### **2.5.2.1 Re-commissioning**

The Contractor shall provide cleaning and waste disposal of ablution facility until return to service of the plant.

#### **2.5.3 Management and Reporting**

- a. The type of reports, level of detail and frequency of reporting will be mutually agreed by the Employer and the Contractor during the contract negotiation phase of this agreement. These may change from time to time on request by the Employer.
- b. The Contractor to be represented at all outage related meeting which may be daily, weekly or monthly.
- c. The Contractor to be represented at all Employer safety meetings.
- d. The Contractor to be represented at any ad-hoc meetings that may arise in order to address any outage planning, execution, finalisation or safety related matters.
- e. Liaison meetings shall be held with the Employer's Representative or his/her delegate on as and when required basis to discuss any technical details, or concerns.

##### **2.5.3.1 Contractor's Management, Meetings and Key People**

- a. Before work starts on site, an inaugural meeting is held with the Contractor and the Employer, to explain in detail all requirements of the Site Regulations.
- b. The Contractor is issued with a file of current Site Regulations on arrival. The file remains the property of the Employer and the Contractor is responsible for its maintenance and updating to include new or revised regulations as issued by the Employer.
- c. The Contractor must ensure that all personnel operating mobile equipment and vehicles are authorised, this includes but not limited to;
  - i. Forklifts

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- ii. Mobile Cranes
- iii. Cherry Pickers
- iv. Any other mobile equipment
- d. The Contractor shall be responsible for the regular inspections and daily equipment checks of the mobile equipment and vehicles including record keeping while onsite.
- e. The Contractor must ensure that all personnel performing work on the plant are authorised, this includes but not limited to;
  - Working at heights
  - Heat stress areas
  - Scaffolding Compliance
  - Hazardous substances
  - Any other related training required

#### **2.5.4 Project Implementation**

The Contractor shall supply an outage execution plan per outage including at least the following in Primavera or any other project plan acceptable to the Employer:

- i. Site establishment
- ii. Activities
- iii. Manpower plan (Resource loaded)
- iv. Organogram

#### **2.5.5 Manpower Requirements**

- a. The number of personnel required to execute the works is to be proposed by the Contractor after his/her assessment of the scope of work and submitted to the Employer for approval.
- b. The successful Contractor shall utilise/provide skilled and suitably qualified staff with experience in the aspects of this SOW and supporting teams.
- c. All staff brought onto site in connection with this work scope should be able to fluently speak, read and write in English.
- d. Provide daily supervision of all related plant through trained and competent personnel to ensure that inspections & work activities are conducted daily during execution of the outage.

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## 2.6 Process for Monitoring

This process will be agreed by both parties as per purchase order and according to Outage process control manuals and the specific outage SOW

## 2.7 Related/Supporting Documents

- a. Waste disposal Procedure.

## 3. The Scope of work for Ablution facilities

### 3.1 Scope of Work Requirement

#### 3.1.1 Site Location of Ablutions

The scope of work covered is for the provision of mobile ablution facilities in Units 1-6 on an as and when required basis. The plant areas which are considered in the scope are the Boiler Plant and Turbine Plant. The meter levels within the units which the ablutions will be placed are as follows: 0 M/L, 16 M/L, 57 M/L, 76 M/L, 81 M/L

#### 3.1.2 Ablution Requirements

- Sanitary facilities must be freely and readily accessible to employees.
- Sanitary facilities must be provided with a water closet pan seat, toilet paper, water, drying towels and handwashing soap
- Floors of the toilet must be constructed of an easily cleanable surface.
- Privacy must be ensured through the provision of screen walls, partitions or doors.
- Location of accessible toilets should not be too remote from the main traffic area to avoid long travel distance. It should be easily accessible for those with urgency for the users.
- The contractor must supply mobile, chemical toilets which are easily accessible to employees, ensuring the chemical toilets meet the requirements stipulated in SANS 10400-Q, SANS 10400-T and Construction Regulations, Regulation 3.
- The contractor must ensure that there is an adequate number of mobile toilet units for the amount of personnel on site, adhering to the requirements stipulated in Table 6 of SANS 10400-P. **The maximum number of employees and/or contractors expected at any one time during an outage is 2 300.**
- The contractor must ensure separate ablutions facilities are provided for males and females and the ablutions units are to be clearly marked for the designated gender.
- The contractor must supply disposable paper towels and ensure there is an adequate supply of the paper towels throughout operations.
- The contractor must ensure the ablutions units are fitted with disposal bins, and the female ablutions must be fitted with a receptacle for sanitary needs. The bins must be cleaned regularly to ensure that the facilities are safe from health hazards as addressed in the OHS Act 85 of 1993.

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- The hand-washing facilities (basins) provided must have clean water and soap.
- The contractor must ensure there is adequate lighting in the ablution facilities as stipulated in SANS 10114 -1.
- The contractor must ensure there is adequate ventilation in the ablution facilities as stipulated in SANS 10400-O and SANS 30500.
- The contractor must ensure there is a proper drainage and sewage disposal system consistent with approved environmental standards.
- Mobile or temporary sanitation facilities must not result in environmental pollution and should be designed, installed, serviced and managed in such a manner as to prevent environmental pollution while maintaining a healthy work environment for employees.

### **3.1.3 Operation, Maintenance, Cleaning and Effluent Disposal**

The contractor is to ensure that the mobile ablutions will be readily available to employees/contractors through means of appropriate operation and maintenance for the mobile ablutions. The contractor shall ensure the following requirements as a minimum:

- Toilet facilities must be kept clean at all times, with general cleaning conducted daily, and facilities should be provided with an adequate supply of toilet paper, soap and drying towels.
- The timing and frequency of deep cleaning should be determined by the crowd flow. Thorough cleaning of toilets should be carried out during off-peak hours when toilet usage is low. Touch up cleaning should be done more often during peak hours.
- Toilet facilities must also be maintained in good working order and in good repair at all times and must be adequately ventilated and illuminated.
- Faulty or broken components must be repaired within reasonable time so as not to infringe on the health and safety of employees.
- All toilets that are not connected to sewers shall be linked to a containment facility that either allows for faecal sludge to be safely treated onsite or transported to offsite treatment facilities.
- All toilets that are not connected to sewers and where excreta cannot be treated onsite shall have access for safe emptying. The contractor will be required to haul and empty the excreta at Thuthukani Sewage Treatment Plant located approximately 9km from Tutuka Power Station.
- Sanitary receptacles must be serviced regularly so as not to result in overfilling, offensive odours, or a health hazard, and shall be maintained in a clean and sanitary condition.
- Preventative servicing should be undertaken regularly to ensure that sanitary fixtures, sensors, and mechanical parts are maintained in working order.

**The contractor shall be expected to submit an operation and maintenance manual for the mobile ablution facilities.**

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### 3.1.4 Time period which scope is applicable

- During Inspections and Interims durations between 14- 28 days.
- During the General overhauls and Mini General Overhauls with duration from 44 to 120 days.

### 3.2 Special Conditions

- i. There is a high level of dust on the plant
- ii. Cleaning is from 0m level to 81m level on Boilers, the work involves working at heights.
- iii. Heat stress consideration during the commissioning or in a confined space
- iv. Rotating equipment (i.e., turbine, motors, GAH, Pumps might be on barring or rotating)
- v. Electrical circuit might be alive

### 3.3 Exclusions

- i. Scaffolding and Insulation
- ii. Control Instrumentation components
- iii. Non-destructive testing
- iv. Lubrication
- v. Unauthorised modifications

## 4. Acceptance

This document has been seen and accepted by:

Name	Designation
	Middle Manager Outages
	Manager Outage Execution
	Civil Engineering Manager
	Snr Advisor Outage co-ordination
	Snr Advisor Occupational Hygiene

## 5. Revisions

Date	Rev.	Compiler	Remarks
30 July 2025	2		Civil Engineering inputs

## 6. Development Team

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

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## **7. Acknowledgements**

Not Applicable

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