Eskom	Specification	Matimba Power Station

Title: **Scope of work for the cleaning of Matimba ACC Deltas**

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1. Introduction

A five year as and when required single contract is to be placed with a single supplier for the scope of work for Cleaning of the Matimba Power Station ACC Deltas.

This document covers the required scope of work and technical requirements for this service contract.

2. Supporting Clauses

2.1 Scope

This document sets out the detailed scope of work for Cleaning of the Matimba Power Station ACC Deltas as and when required during planned/unplanned outages for the duration of five years.

2.1.1 Purpose

The purpose of this document is to list the scope of work which the Contractor shall comply to as agreed to on the contract between the Contractor and Eskom Matimba Power Station (Hereafter referred to as the Employer).

2.1.2 Applicability

This document shall apply throughout Eskom Matimba Power Station and to any Contractor, subcontractors, and personnel involved in this service contract.

2.1.3 Effective date

This document is effective from the authorisation date.

2.2 Normative/Informative References

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

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

[2] ISO 45001 Occupational Health and Safety Management System

[3] ISO 14001 Environmental Management System

[4] 32-1034: Eskom Procurement and Supply Chain Management Procedure

[5] Preferential Procurement Policy Framework Act 5 of 2000

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2.2.2 Informative

[1]. 240-62072907 Eskom Delegation of Authority Policy

[2]. 240-165040111 Supplier Terms Policy

[3]. 32-1033 Eskom Procurement and Supply Chain Management Policy

[4]. 240-141007195 Electronic Signature Usage Policy

[5]. 240-156280553 Procedure for Signing Documentation Electronically Using The Eskom Electronic Signing System.

[6]. 240-168966153 Generation Tender Technical Evaluation Procedure

[7]. 39-98 Safe use of Lifting Machines and Lifting Tackle

[8]. 240-154230239 Plant safety and ORHVS authorization

2.3 Disclosure Classification

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

2.4 Definitions

Definition	Description
ADHOC	A solution designed for a specific problem or task, non-generalizable, and not intended to be able to be adapted to other purposes.
Contractor	Partnership agreements and service provider contracted for supplying specific service to Eskom Generation Matimba Power Station.
Controlled Disclosure	Controlled disclosure to external parties (either enforced by law, or discretionary.
Employer	Eskom or Eskom Generation, Matimba Power Station
Parties	The Employer and the Contractor.
Contract Manager	The Employer's representative responsible for managing the agreed contract.
Deltas	The Matimba ACC tube bundles, which requires optimum cleanliness to ensure a high efficiency condenser.

2.5 Abbreviations

Abbreviation	Description
OEM	Original Equipment Manufacturer.
PDF	Portable Document Format.
QCP	Quality Control Plan

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2.6 Roles and Responsibilities

2.6.1 Contract Manager

1. Acts as the primary point of contact between Eskom and the Contractor.
2. Co-ordinating and manage contract budget and expenses.
3. Ensures that the Contractor operates within the budget.
4. Review, verify and approve receipt of deliverables from the Contractor.
5. Manage and maintain records and correspondence between the Employer and the Contractor.
6. Ensures that the Contractor comply with the terms and conditions of the contract.
7. Keep the records of the contract for history and audit purposes.

2.6.2 *Contractor*

1. Supply of service to the Employer in accordance with the agreed contract.
2. Ensure that the quality of service`s provided is in accordance with the required specification.
3. Shall attend the required scope clarification meetings in preparation for the planned future outages.
4. Adhere to all Eskom safety and lifesaving rules when on site as per the contract.
5. Adhere to all Eskom environmental rules when on site as per the contract.
6. The contractor shall not perform any work unless instructed by the Contracts manager and agreed to by the Contractor. Executing work without approval from the contracts manager may result in non-payment for the applicable work done.

2.6.3 *Plant & Materials provided "free issue" by the Employer*

The Employer will provide the following:

1. Provide access to site.
2. Provide an area for site establishment.
3. Provide an area for material storage during installation.
4. Provide safe working conditions on site.
5. Provide electrical supplies 220VAC and 380 VAC 63A to the outside of the ACC fan units. i.e. Power supply at the ACC walkways. The Contractor shall make use of their own electrical extension cables that will be in the range of ±120m.

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6. Provide a safe working crane/hoist for lifting tools and equipment (jigs to be provided by Contractor if necessary) from ground level to the fan deck at 45m level.
7. Water and connection points required for pressure washing.
8. The Employer will provide industrial grade degreaser as needed by the Contractor. A maximum of 500L may be utilised.

2.7 Safety considerations

2.7.1 *General considerations*

All hose end connections to be fitted with the appropriate “hose checks” / “whip checks” to prevent injury by restraining the hose in the event of an end fitting failure.

The HPWJ pump discharge shall be fitted with a calibrated pressure gauge and safety relief device.

Barriers and Warning notice must be in place before any work commences.

The Contractor must ensure that the water runoff does not fall onto the generator transformer or string insulators or surge arrestors of the neighbouring unit. The water run off could result in a unit trip or electrocution.

In addition to the contract’s safety requirements, the following are to be adhered to:

2.7.2 *Matimba Permit to Work System*

The Contractor will ensure that he/she is informed of all the requirements of Eskom’s Plant Safety Regulations and ORHVS and that he/she always comply to the requirements of these Regulations.

The Contractor will ensure that all his supervisors who are directly involved with Eskom’s Permit to Work System, are trained and on successful completion of Matimba’s authorization / evaluation process will be authorized as “Responsible Persons”.

The Responsible Person shall ensure that:

1. The conditions of permits and cautionary notices are strictly adhered to.
2. The lockout procedures, mechanical as well as electrical, are strictly adhered to and any deviations shall be corrected immediately.
3. The safe work procedures as laid down by Matimba Power Station and as determined by the Risk Assessment, shall be followed.
4. The workers register and cautionary notices are discussed daily with workers

2.7.3 *Working at heights*

Working at height is a significant part of work in Eskom Holdings and is regarded as a high-risk activity, and as a result all precautions must be taken to prevent incidents while working at height.

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Wherever reasonably practicable, preference must be given to the performance of work at ground level as opposed to work in an elevated position. Where work in an elevated position is necessary, the requirements in this document shall apply.

No person may work at height where there is a risk of falling unless:

1. He/she is medically fit to work at height.
2. A pre-task risk assessment to identify all risks and hazards has been conducted prior to commencing any work of this nature.
3. He/she is appropriately trained as determined by the risk assessment.
4. He/she is appropriately secured during ascending and descending; and
5. He/she is using an Eskom approved fall arrest system where applicable.

2.7.4 *Rigging requirements*

Where rigging is required:

All rigging and hoisting of material and or equipment shall be done so by the Contractor according to the Safe use of Lifting Machines and Lifting Tackle. The Contractor's crane operator/s shall have a valid certified crane operator's licence.

The Contractor shall submit a rigging plan with a risk assessment for lifting, rigging and installation that shall be approved by Eskom Matimba GMR2.1 as well as safety.

Care should be taken to ensure that no components can fall from the working area more than 0.5m if there is slip/failure. The Contractor will submit a rigging procedure if a contract has been placed as discussed above.

A 3 Ton radio-controlled crane is available to use (The operating key must be signed out). The largest area that can pass through the platform for any material to be hoisted to 45m level is 1.8m x 2m x 4m. See Figure 1 for pictures of the available crane.

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Figure 1: 3 Available cranes for hoisting up tools and equipment from 0m level to 45m level (left) and gap in platform for hoisting up of the fan guard sections using the crane (right)

2.7.5 *Electrical consideration*

In addition to the compliance to the Eskom Generation Plant Safety Regulations, site specific procedures and stipulations of the OHS Act: Prior to the execution of the works, each cleaning system / pump shall have a signed check sheet confirming that the electrical components have been inspected and serviced and is safe for use. This shall be approved by a registered electrician. The confirmation check sheet/letter shall be provided to the Contracts Manager prior to execution of the scope of work.

All electrical components exposed to water jets shall be rated to IP66.

The contractor shall cover each ACC fan drives with a single plastic/tarpaulin that as and when water is jetted/rundowns onto the fan drives. The contractor shall ensure that the terminal box is adequately covered to prevent water ingress.

All pumps and cleaning systems shall have fused isolators to cut off electrical supply.

All pumps and cleaning systems shall be adequately earthed with earth leakage protection.

All pumps and cleaning systems shall have emergency stop buttons.

All pumps and cleaning systems shall have motor thermal overloads.

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The Employers Electrical Maintenance Department shall inspect all pumps and cleaning systems to confirm electrical compliance that the equipment is safe for use.

When cleaning the ACC lights, the contractor shall apply for a permit for electrical isolation before cleaning the lights commences.

2.8 Process of Monitoring

The following mechanisms will be used for monitoring this contract and the effectiveness of execution.

2.8.1 *Quality Control Plan*

A quality control plan for the entire works and all milestones will be developed and proposed to the Employer for review and comments at least 30 days prior to the commencement of the work. Once reviewed and accepted, the QCP will be approved for use.

The QCP shall be in line to the Eskom Supplier Quality Management Specification (240-105658000). Specific focus will be on Section 3.4 of the Quality Management Specification. The soft copy and working copy will be supplied as per the data pack requirements.

2.8.2 Document Control

All contractual communication between the Employer and *Contractor* shall be in written format accompanied by an official letterhead and signed by the authorised Parties.

All attached final/signed document shall be in PDF format.

All contractual communication letterheads and attached documentation shall be electronically mailed as per PDF format.

2.8.3 Contractual Meetings

As part of the Employers scope execution readiness, the contracts manager will schedule monthly scope clarification meetings from 12 Months before scope execution. This is applicable for each Unit.

ADHOC Meetings can be scheduled by the contracts manager as agreed upon.

All meetings shall be recorded using Microsoft Teams or, minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the conditions of the contract to carry out such actions or instructions.

2.8.4 Correspondence

All verbal and non–verbal communication between the Employer and Contractor shall be communicated in an electronic format which can be read or copied.

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3. Scope of work

3.1 High pressure cleaning system

The contractor will ensure that at least three of the following high pressure cleaning systems be used for the execution of the scope of work:

1. The cleaning system to provide shall be rail mounted onto the ACC fan heat exchangers through clamp on rails which the contractor shall provide and install both the rails and cleaning system.
2. The cleaning system to provide shall be electrically driven by a control box with pulleys and drive belts for vertical motion to allow cleaning to the very top of the heat exchanger and again to the very bottom of the heat exchanger.
3. The cleaning system to provide may be automatically / manually moved horizontally across the length of the ACC row.
4. The cleaning system to provide nozzle beam/head shall consist of at least two horizontal nozzle rows each at least 500mm wide.
5. The cleaning system pumps to provide shall at minimum have the following specifications:
    a. 7 MPa positive displacement piston pumps.
    b. 230 L/min flowrate.
    c. Min of 30 kW pumps to be used.
    d. 380VAC 63A power supply is available.
    e. DN50 fire hose for the suction line with C couplings.
6. The system shall operate on a common supply line offering 300 kPa supply water at around 22°C.
7. The system to provide shall have the necessary safety systems:
    a. No flow/Low pressure cutout protection.
    b. Bypass safety valve.
    c. Motor overload protection.
    d. Emergency stops.
    e. Fused isolators on the pump and control box.
    f. Limit switches for all electrically driven movement.
    g. All electrical components working at/close to water shall have IP 66 protection.
    h. The control box for the cleaning rails shall be 220 VAC 50HZ with earth leakage protection.
8. All electrical equipment shall be inspected and approved by an authorised electrician. The inspection certificate/letter shall confirm that the equipment is safe for use.

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9. Each system shall have an inspection sheet that shall be provided to the contracts manager prior to starting of the work for the contractor to confirm his equipment is safe for use. This check sheet shall form part of the QCP.
10. It is to be noted that the 3rd cleaning system pump shall be installed at 0m level and the contractor shall ensure sufficient high-pressure hoses are available to clean at least 130m away.
11. The contractor shall have all the necessary tools and equipment to operate and maintain the cleaning systems.
12. At least two manually operated high pressure lances shall be used and shall at least supply 7Mpa through a min of 7mm nozzle. These lances will be used to clean the tube bundles/heat exchangers form the inside.
13. At least two high pressure pumps to induct and apply degreaser to the inside and outside of the ACC heat exchanger to soften the oil crust/fouling.
14. The Employer will provide industrial grade degreaser as needed by the Contractor. A maximum of 500L may be utilised.
15. The Employer has two high pressure cleaning pumps as described above. The contractor shall be responsible for the maintenance thereof (Responsible for all Spare, refurbishment and maintenance) The contractor shall provide an invoice for all repairs on the pumps. The contractor shall have no excuses for the pumps being unavailable. Should the two pumps of the Employer be unavailable, the contractor shall remain responsible for the execution of the scope of work.

3.2 Min tools and equipment

The following tools are the minimum requirements and as such, will be verified by the contracts manager and engineering before the outages commence.

1. SANS approved safety harnesses with double lanyard for each person during installation of the rails.
2. Raincoats for all employees during washing.
3. Nonslip safety boots.
4. Plastic covers to close the motors, gearboxes and all the necessary electrical components to prevent water ingress. The covers shall be large enough to cover the motor, terminal box and whole gearbox. Not more than one cover shall be needed per fan.
5. Extendable ladder to install the cleaning system rails.
6. General PPE.
7. The Contractor shall make provision for a reasonable set/number of spare equipment and tooling, particularly, nozzles, hoses, couplings, all wear and tear parts such as seal, belts, limit switches and rollers. These spares shall be available on site.
8. All hose connections shall have whip checks.

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9. All hydraulic hoses shall have abrasion resistant material at the pump outlet where the hoses are laying on the floor for a reasonable length to prevent the hoses from damage, especially at the pump outlet where excessive vibration is present on the hoses
10. Pump suction hoses to connect to the Employers connection point.

3.3 Additional

A plant walk shall be done before the commencement of any work. This plant walk shall be with the contractors site supervisor and relevant QC personnel, Contracts manager and system engineer.

Where working on or close to electrical components with water, consult with the Contracts manager to ensure electrical isolations.

Ensure all fans are electrically isolated and on permit before any work commences.

The system engineer and outage coordinator are not responsible to constantly go to the plant to verify if the work is completed or not, it is the contractor's responsibility to know this. If the *Contractor* accepts that the work is completed, an inspection will be done. If the work is not adequate as per this SOW, a written notification will be submitted to the contractor. Thereafter, the *Contractor* will make the necessary corrections, if possible, if not, an NCR will be issued. Once the corrections have been made, the contractor will inform the *Contracts Manager* that the work is completed. If the work is again found inadequate as per this SOW, the first notice of default will be issued and so forth.

The contractor shall not be allowed to enter the fan unless special arrangements have been made.

Communication to be shared that the lift doors are to be adequately closed to prevent the lift from going into an "Out of service" mode. See picture below.

Where there are any hold and witness points requiring intervention from the *Contracts Manager* and or engineer, a formal notification shall be given at least 24h in advance with a final notification at least 12-6 h before the time. Should these times not be respected, the Employer shall not be accountable for lost time should inspections not be done due to unavailability.

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3.4 Scope of Work

This work is done during every maintenance opportunity – i.e. every 18 months. It is to be noted that this SOW needs to be executed during a double 12h shift. i.e. work will not stop. This is to ensure that the cleaning is done during the available time frame. It is to be noted that failing to clean within the given time frame may result in a notice of default as various other plant related activities are dependent on the completion of the ACC cleaning which, if not completed on time, will result in an outage slip. The contractor will only have 10 working days for physical cleaning. This excludes the duration to rig and assemble the equipment at the ACC.

Task	Outcomes	Workers tools	Responsibility	Intervention	Total Task Duration (days) Excludes reports
Plant walks with the system engineer and the outage coordinator	To identify the severely fouled areas which will need to be cleaned with degreaser as a minimum	None	Contractor, Contracts manager and Engineer	R	NA
Rig, move and position the necessary pumps and hoses	Ensure the cleaning systems are all connected and ready to start cleaning. It is important that the necessary power requirements should be identified to inform the Contracts manager to arrange with electrical maintenance.		Contractor, Contracts Manager		1.5
Install plastic covers over the motors, gearboxes and the necessary electrical and C&I power supplies to prevent any water ingress into those areas.	It is expected that during washing, from the inside or the outside, that the motors, gearboxes and or electrical supplies be effectively covered with a plastic/canvas cover to prevent water ingress.	At least 24 plastic covers sufficiently large to cover the gearboxes. Measurements to be taken on site	Contractor	S	NA

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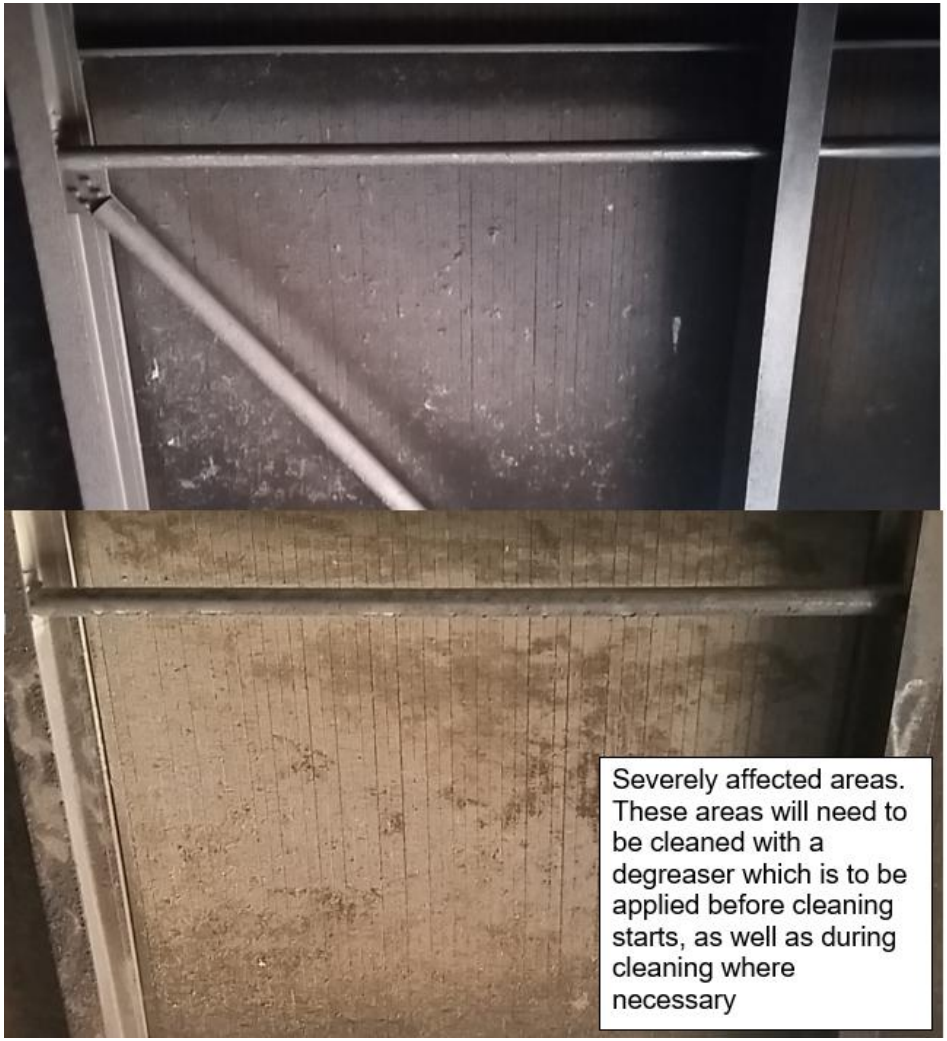
There is water supplied at 300kPa from a common header between U1 and U6 with isolation valves every other fan row on 45m level. The contractor must verify that the supply pump is operable and must be familiar with the operation of the pump.	The contractor will be responsible for the operation of the supply pump and will need to stop and start the pump as and when cleaning is done.	NA	Outage coordinator and contractor		NA
The contractor shall demonstrate to the system engineer that the contractor can effectively clean the condenser to the acceptance criteria.	This will be done on at least 3 selected tube bundles. Only once the selected tube bundles have been cleaned to the acceptance criteria, will the contractor continue. If not, the contractor will be considered non-compliant and is liable for an NCR.	NA	Contractor	W	1
Apply degreaser to identified areas using a pressure pump and induction system	Degreaser must be applied to severely fouled areas to soften the fouled oil. It is important that the contractor arrange early on for the degreaser which is available at stores. It is advised that the contractor ensure that the necessary degreaser is available before the outage starts. The degreaser shall be applied using a high-pressure pump.	Pressure pump with degreaser induction system	Contractor	S	1
The contractor will use, as a minimum, a 7 mm nozzle lance to clean the heat exchangers from the inside of the plenums. It is expected that as a minimum, initially at least 2 such lances be used	It is required that the contractor use a suitable nozzle to ensure sufficient flow pressure to remove the debris. High pressure, low flow does not remove the fouled areas	High pressure cleaning system	Contractor		9
In parallel to cleaning on the inside of the plenums, install the cleaning systems at the deltas and start cleaning the deltas from the outside once the	As a minimum, at least 2 cleaning devices must be used simultaneously to clean on the deltas.	High pressure cleaning system	Contractor		

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cleaning from the inside has been completed on at least one row.	It is expected that the cleaning device will move vertically up and down before moving horizontally to the next position.				
In parallel to cleaning, where necessary, the contractor will need to apply degreaser again to the affected areas and clean the heat exchanger form the inside using the lance	It often occurs that severely fouled areas need to be cleaned several times using degreaser and the hand lance to clean from the inside of the plenum	High pressure cleaning system and pressure pump with degreaser induction system	Contractor	S	
Clean the floodlights inside of the plenum with soup and water. Ensure that the lights are electrically isolated	This work is done only during IN outages as it is done by another contractor during IR, GO and MO outages	Degreaser, water and rags	Contractor	S	
Once cleaning is done, the contractor will use a plastic scraper and scrape off all dirt at the deltas. Dirt must be thrown in bags/bins and disposed.	There is a lot of dirt that remains on the pipe header at the bottom of the fin tube heat exchangers which must be cleaned afterwards	Plastic scrapers and refuge bags/bins	Contractor	S	0.5

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Severely affected areas. These areas will need to be cleaned with a degreaser which is to be applied before cleaning starts, as well as during cleaning where necessary



Clean the flood lights using soap and water with rags. Step ladders will be required. Ensure that the electrical supply is isolated. Cover all other electrical components to prevent water ingress

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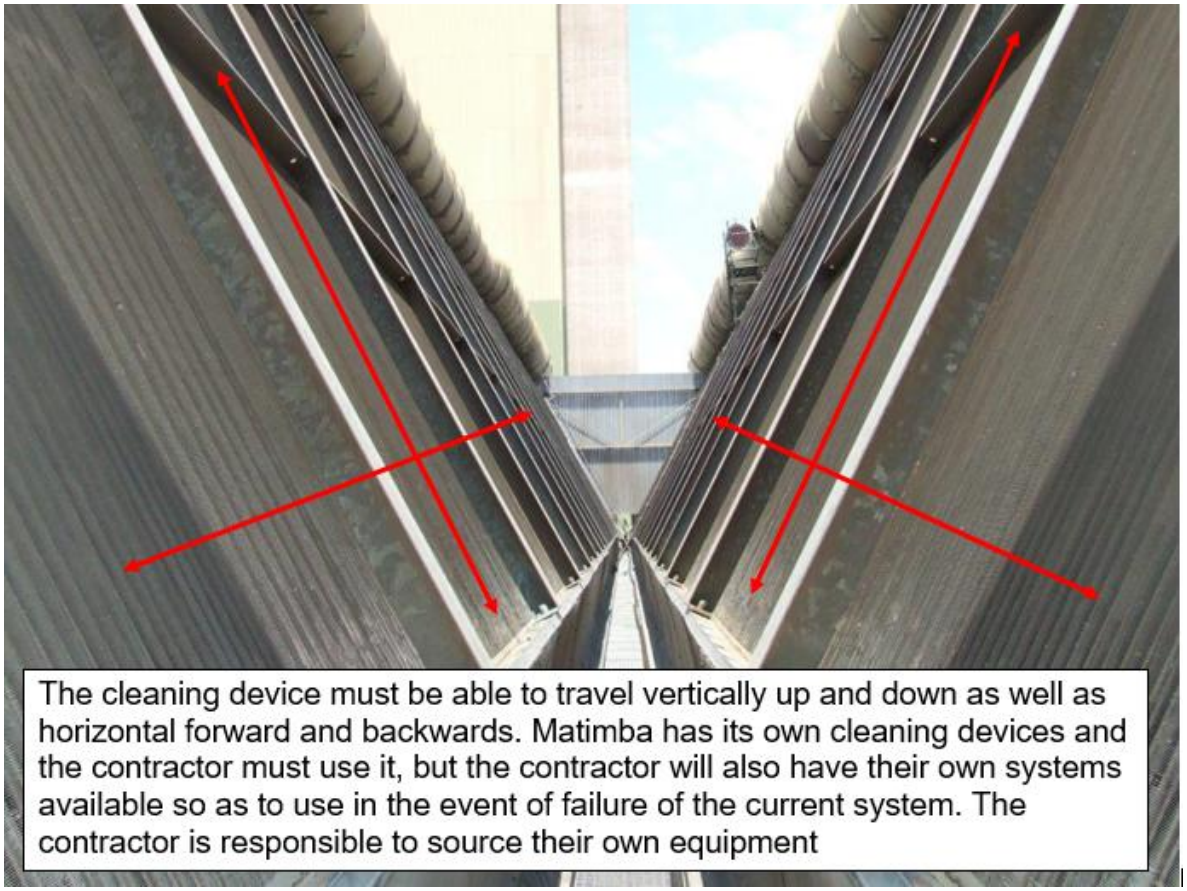
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The entire ACC with all 8 fan rows will be cleaned from the inside using a lance with a min of 10mm nozzle.

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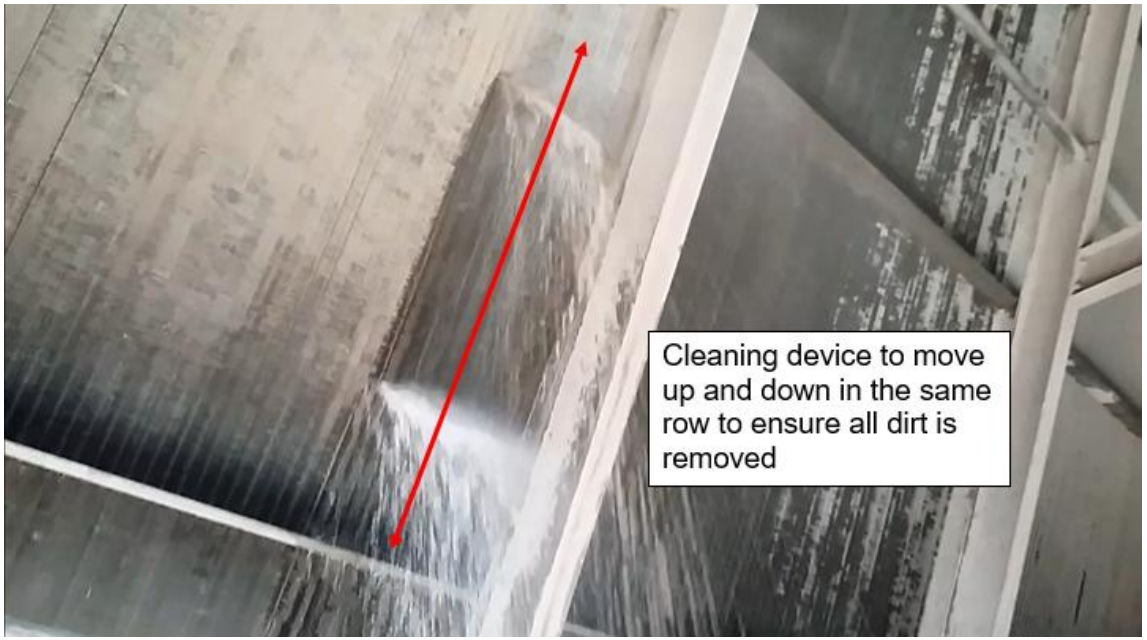
The cleaning device must be able to travel vertically up and down as well as horizontal forward and backwards. Matimba has its own cleaning devices and the contractor must use it, but the contractor will also have their own systems available so as to use in the event of failure of the current system. The contractor is responsible to source their own equipment



The contractor must have their own equipment if the current equipment is not working or available. The contractor must install the system to move across the face of the heat exchangers

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3.6 Scope of work Acceptance Criteria

1. The acceptance criteria are that all fouling shall be removed from the fin tubes, i.e. the entire fin tube surface of all the tubes shall be completely cleaned to a uniform metallic colour with no traces of fouling/blockages or other scales and deposits.
2. This shall be validated by means of visual inspection by the system engineer together with the contractor's supervisor and quality personnel as well as the Contracts Manager.
3. Non achievement of the acceptance criteria shall be considered as non-performance with respect to the contract.
4. The contractor will only have 10 working days for physical cleaning. This excludes the duration to rig and assemble the equipment at the ACC.
5. The Contractor shall compile a final method statement, safety work procedure and Quality Control Plan (QCP) and submit these to the Contracts Manager for approval by the Employers engineering representative before cleaning may commence. The engineer shall have the opportunity to add witness or hold points on the QCP.

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4. Authorisation

This document has been seen and accepted by:

Name & Surname	Designation
Nhlanhla Ncwane	ACC and Condensate System Engineer
Rotshidzwa Mange	ACC and Condensate System Engineer
Francois Nel	Senior Engineer on ACC and Condensate Plant

5. Revisions

Date	Rev.	Compiler	Remarks
December 2025	0	R Mange	First Draft

6. Development team

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

NA

7. Acknowledgements

NA

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