

	Scope Of Work	Generation
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Title: **Manufacture, supply and deliver Fabric Filter Plant Cages to Arnot Power Station** Document Identifier:

Alternative Reference Number:

Area of Applicability: **Arnot Power Station**

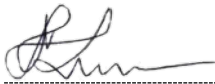
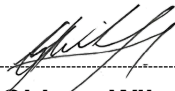
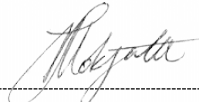
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Compiled by	Supported by	Functional Responsibility	Authorized by
			
Jan-Louis Human Flue Gas Cleaning System Engineer	Omphemetse Tawana Manager Materials Management	Gideon Wilsenach Project Manager	Tshepo Mokgatle Engineering Manager
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1. Introduction

Arnot power station is equipped with Fabric Filter Plant (FFP). North side Units (Unit 1-3) each consist of 8 cells, each cell has 1698 filter bags installed. South side Units (Unit 4-6) each consist of 8 cells, each cell has 1367 filter bags installed. Each filter bag will have one assembled filter cage installed; the assembly consist of a top, a middle and a bottom section including clips for assembly.

The purpose of this contract is to manufacture, supply and deliver Fabric Filter Plant Cages to Arnot Power Station. Total of 33 000 complete cages (comprising of the following stock numbers) over a period of 36 months on an “as and when required” basis.

2. Supporting Clauses

2.1 Scope

The purpose of this contract is to manufacture, supply and deliver Fabric Filter Plant Cages to Arnot Power Station. Total of 33 000 complete cages (comprising of the following stock numbers) over a period of 36 months on an “as and when required” basis.

2.1.1 Purpose

2.1.2 Applicability

This document shall apply throughout Arnot Power Station.

2.1.3 Effective date

This document is 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.

2.2.1 Normative

- [1] ISO 9001 Quality Management Systems
- [2] 240-105658000: Supplier quality management: specification.
- [3] 240-48929482: Tender Engineering Evaluation Procedure.
- [4] 240-84513751: Material Specification and Certification Guideline for Power Generation Plant
- [5] 240-54820279: Receive Materials
- [6] 240-72273656, Power Generation Asset Criticality Classification Standard
- [7] 240-60725304: Asset Management Policy

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[8] 240-54818977: Storage of Materials

[9] 240-106628253: Standard for Welding Requirements on Eskom Plant

2.2.2 Informative

[10] FFP cage drawing Number 26.41/38202

2.3 Definitions

Definition	Description

2.3.1 Disclosure Classification:

Confidential: the classification given to information that may be used by malicious/opposing/hostile elements to harm the objectives and functions of Eskom Holdings Limited.

2.4 Abbreviations

Abbreviation	Explanation
PCM	Process Control Manual
SHEQ	Safety, Health, Environmental & Quality
SOW	Scope Of Work
OEM	Original Equipment Manufacturer

2.5 Roles and Responsibilities

2.5.1 Eskom buyers and all people sourcing and procuring

Are to ensure that:

- proper procurement specifications, including material specification and certification requirements, are used to control technical quality of products throughout the manufacturing value chain with sound traceability through the procurement value chain.
- No order should be placed without confirming with the system engineer or technical governance workgroup lead that the procurement specification includes materials specification and certification requirements as per this guideline.

2.5.2 Plant System Engineers

Are responsible to:

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- Compile or facilitate workgroups to assist with compilation of procurement specifications and the enforcement thereof.
- Assist with development of correct specifications and implementation of good technical controls (i.e. technical evaluation of suppliers, inspection and test plan development, and sign-off) and decision making (to handle deviation/concession requests, accept material and certification) during the procurement processes.
- Engage the commercial process (procurement/buying) to ensure technical requirements are met for all suppliers.
- Control all records in official Eskom systems and keep them for the life of the plant. This will require loading these onto the relevant electronic systems (e.g. HyperWave and Sharepoint)

2.5.3 Engineering Managers

Are responsible to supply resources (i.e. system engineers) to:

- Compile detailed procurement specifications, which include material specifications with certification requirements.
- Engage with procurement and control technical product quality according to the procurement specifications during the procurement process.

2.5.4 Material Management (Stores)

Are responsible to:

- Ensure that Boiler Engineering, Maintenance and Outages department completes the required quality control documents and sign off all relevant documentation prior to booking any spare into the stores.
- Ensure the Fabric Filter Plant spares are stored as per the storage requirements.
- Ensure that SAP is updated accordingly regarding the availability and non-availability of components.

2.5.5 Maintenance and Outages departments

Are responsible:

- For quality control on new / refurbished spares before it is booked into the stores. This includes capturing history on SAP (per serial number, part number) and handing in a hard copy of the newly build / refurbished spares quality documentation at the documentation centre.

2.6 Process for Monitoring

Not Applicable.

2.7 Related/Supporting Documents

- Relevant approve NEC Contract

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3. SCOPE APPLICABILITY AND SERVICE REQUIREMENTS

The purpose of this contract is to manufacture, supply and deliver Fabric Filter Plant Cages to Arnot Power Station. Total of 33 000 complete cages (comprising of the following stock numbers) over a period of 36 months on an “as and when required” basis.

Stock Number	Section	Quantity Required
564332	Bottom	33 000
564603	Middel	33 000
564951	Top	33 000
189738	Clips	140 000

3.1 Manufacturing

- Contractor to manufacture, supply and deliver Fabric Filter Plant Cages to Arnot Power Station according to the latest cage drawing (Drawing Number 26.41/38202).
- Steel wired cages to be manufactured from mild carbon steel.
- Support rings to have tensile strength of 450-480MPa and longitudinal wires to have tensile strength of 550-580MPa.
- Workmanship and finish are equal to established practice in modern shops. All materials being worked have clean surfaces. Fabricated members are neat and accurate. Reasonable tolerances are required for each component. See Drawing Number 26.41/38202
- The cages are free of sharp edges and burrs, which can damage the filter bag during installation or operation of the Fabric Filter Plant.
- The dimensions of the cage provided on the drawing include the coating thickness.
- The rings are induction welded onto the wires.
- The wires are induction welded onto the Hem Cup and to the collar.
- The Contractor ensures that:
 - The cages does not deform during assembly.
 - The cages can be disassembled and re-assembled as needed over the life of the cage without deformation of the cage or loss of joint integrity.
 - The welding specification 240-106628253 is adhered to.

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- All the dimensions are provided in mm unless stated otherwise.
- The clip for joining of cages to be manufactured according to Drawing Number 26.41/38202.
- The maximum spacing between the horizontal rings is 200 mm.
- In no event shall any item delivered or to be delivered hereunder contain an amount of lead in excess of 0.06% by weight in the dried film.
- All the materials should be mild steel. The complete filter cage should be coated with SKS Black edging primer SNK10 or Ferro-Pak 615 or approved equivalent..

3.2 Shipping requirements

- A typical shipping and storage crate for cages can be used. The material of construction (structural pine) shall be of adequate heft to provide the strength needed to protect the cages during transportation. A minimum of 50mm x 100mm or larger wood shall be used to frame the main structure. Connections shall be achieved by both nailing and use of screws. The ends shall be braced with a minimum 50mm x 100mm diagonal and webbing or alternate end caps shall be provided to prevent the cages from dislodging during transport.
- The cage crate is assembled with dual support levels. This is so the bottom cages are not damaged from supporting the weight of the stack.
- The crate is covered with some form of durable cover suitable for both shipment and storage. Protective coverings may require UV inhibitors depending upon site storage conditions and schedule.
- Crates are capable of being lifted via standard fork lift from the side without damage to the crate.
- Crate bottom is dual layered allowing for unobstructed inserting of fork lift blades between the two layers.
- Crate is able to be lifted with a crane utilising slings without damage to the crate.
- The handling instructions are included with each bundle of cages showing proper loading, unloading and storage requirements.
- The weight of shipping units does not exceed 900 Kg

3.3 Quality Assurance

- All work shall comply with ISO 9001 and Eskom Generation QMS.
- Arnot Power Station reserves the right to audit the contractor processes and workshops.

4. Acceptance

This document has been seen and accepted by:

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Name	Designation
Jan-Louis Human	System Engineer
Gideon Wilsenach	Projects Manager
Lucky Maleka	Boiler Maintenance

5. Revisions

Date	Rev.	Compiler	Remarks
April 2026	Rev 0	J-L Human	Scope of Work
August 2026	Rev 1	J-L Human	Updated quantities according to approved budget letter

6. Development Team

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

- Hendre Grobbelaar
- Gideon Wilsenach
- Marius Pieterse

7. Acknowledgements

None

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