

	SCOPE OF WORK	Arnot Power Station
---	----------------------	----------------------------

Title: **Supply and delivery of Filter Elements at Arnot Power Station**

Document Identifier: **AEAP**

Alternative Reference Number:

Area of Applicability: **Eskom Holdings SOC Ltd**

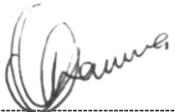
Functional Area: **Materials Management**

Revision: **1**

Total Pages: **5**

Next Review Date: **N/A**

Disclosure Classification: **Controlled Disclosure**

Compiled by	Reviewed by	Functional Responsibility	Accepted by:
			
A Mabilisa Snr Technician Technical Support	S Sibanyoni Snr Advisor Technical Support	N Malinga Manager Technical Support	O Tawana Manager Materials Management
Date: 30/05/2025	Date: 29/05/2025	Date: 30.05.2025	Date: 30.05.2025

1. Introduction

This document defines the scope of work for the supply and delivery of Filter Elements to Arnot Power Station. The objective is to procure high-quality, reliable Filter Elements that meet the specified technical and operational requirements to support maintenance and operational needs. This supply is critical to ensure the continuous and efficient operation of equipment at the power station while minimizing downtime due to component failures. The scope outlines the responsibilities, deliverables, standards, and quality assurance requirements for the supplier to ensure a successful and timely delivery.

2. Objective:

To procure, supply, and deliver a comprehensive range of Filter Elements to Arnot Power Station. The aim is to ensure that all items meet the required specifications, quality standards, and delivery timelines for uninterrupted operations and maintenance at the facility.

3. Standards and Compliance

All Filter Elements must:

- Conform to ISO standards ISO 492, ISO 9001 or equivalent i.e., SANS.
- Be manufactured by approved OEMs, with clear and original markings on each item.
- Be delivered with original packaging, ensuring proper protection during transportation.
- Meet the required specifications for dimensions, tolerances and materials as outlined in the provided list.
- Be accompanied by certificates of conformance, warranty documentation and safety data sheets.

4. Quality Assurance

- The supplier must conduct rigorous checks to ensure all items meet the technical and dimensional requirements specified in the Filter Elements list.
- Replacement of any defective or non-conforming items will be at the supplier's expense.

5. Filter Elements list

Below is the Filter Elements list

ITEM NO	MATERIAL	DESCRIPTION	QTY	UMC
1	0143965	FILTER, ELEMENT: DIMENSIONS: SQ 510 MM; REFERENCE NO: F72-12; 500 X 500MM; FOR M10 SYSTEM	10	EA
2	0024977	FILTER, OIL: DIMENSIONS: DIA 290 X LG 465 MM; MATERIAL: STAINLESS STEEL; MICRON: 15 UM; CONTROL; LUBOIL, WORKING TEMPERATURE 60DEG C, ONE CONTAINS FOUR DIFFERENT ELEMENTS, FOR 350 MW TURBO ALTERNATOR TYPE BAU 1.61-9-125, STRAINER PRESSURE 2.5 LITRES PER HOUR PER CUBIC	10	EA

		CENTIMETER, MAXIMUM PRESSURE 40BAR, DELTA P ALARM 0.6BAR, DELTA P BYPASS OPEING 1.2BAR		
3	0236275	BREATHER: TYPE: RELEASE; MATERIAL: BRS/FOAM/SS; DIMENSIONS: DIA 40 X LG 45 MM; CONNECTION: THD; SUPPL P/N: 673-01; DRAWING NO: 0-104-619-914 REV 1; MODEL NO: BDC300-425; REFERENCE NO: 022-989-101-018; G1"X14774.D, FOR USE ON SULZER PUMP; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10	EA
4	0036306	FILTER, ELEMENT: DIMENSIONS: ID 50 X OD 80 X LG 850 MM; MATERIAL: PAPER; SUPPL P/N: C34780-8D1; I2250C34780-8DIM212; CAT NO: M212; REFERENCE NO: C34780-8DI; COALESCER CARTRIDGE, FOR FLUIDEX I2250 PURIFIER, 10 ELEMENTS = 1 SET	10	EA
5	0041690	FILTER, OIL: SUPPL P/N: A1413-481; REFERENCE NO: 98262/164; FOR BROOMWADE CONTROL AIR COMPRESSOR MODEL VDM 750,500 AND 350	10	EA
6	0024969	FILTER, ELEMENT: TYPE: FUEL; DIMENSIONS: DIA 85 X LG 160 MM; MATERIAL: PAPER; REFERENCE NO: 4H8792; CAT E	10	EA
7	0018600	FILTER, OIL: DIMENSIONS: DIA 32 X WD 28 MM; MATERIAL: BRASS; DRAWING NO: B2NR 157794 REV 1; ACCUMULATOR FOR STEAM FEED PUMP, TURBINE	10	EA
8	0215701	FILTER, ELEMENT: TYPE: OIL; DIMENSIONS: 40 IN; MATERIAL: EPOXY FIBER RESIN BONDED; FILTERING RETENTION: 5 UM; MANUF P/N: UE619AP40Z; PALL ATHALON FILTER ELEMENT WITH FLOUROCARBON O-RING; MANUFACTURED BY PALL CORPORATION; USED ON HDP50 & HDP22 PURIFIERS AND BULK OIL PLANT SYSTEM (CLEAN AND USED DUPLEX FILTRATION UNITS AS WELL AS THE COMMON PALL HNP074 & HNP076 UNIT) AND MOBILE PALL FLUSHING UNITS; APPROVED SOLE SOURCE: APPLIED FILTRATION SERVICES; VENDOR NUMBER: 11066195;	10	EA
9	0050223	FILTER, ELEMENT: DIMENSIONS: ID 130 X OD 180 X LG 185 MM; MATERIAL: FELT; REFERENCE NO: 142230	10	EA
10	0215704	FILTER, OIL: DIMENSIONS: 7 X 300 MM; CAT NO: H575285; REPLACEMENT COALESER ELEMENT FOR THE SEPERATOR ON VACUUM PUMP MODEL VCE 60, SITUATED ON BULK PURIFIER HNP074S3KPZAA	10	EA
11	0215703	BREATHER: TYPE: TANK; MATERIAL: FILTER FIBER OLEOPHOBIC RESIN BONDED; DIMENSIONS: DIA 118 X HT 151 MM; SUPPL P/N: HNP074S3KPZAA; CAT NO: HCO293SEE5; REPLACEMENT SCREW ON TYPE UNIT ON SUCTION LINE TO VAC PUMP ON BULK OIL AND A+B SPARE BULK OIL TANKS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10	EA
12	0565832	FILTER, OIL: TYPE: CARTRIDGE; DIMENSIONS: DIA 60 X LG 187 MM; MATERIAL: ALUMINIUM; MICRON: 5; APPLICATION: COMPRESSOR; MANUF P/N: AAMB796039-00002; CENTRIFUGAL COMPRESSOR; NEW GENERATION BF4BSB AND 6B	10	EA
13	0050137	FILTER, ELEMENT: TYPE: ELEMENT; DIMENSIONS: DIA	10	EA

		105 X LG 470 MM; MATERIAL: STAINLESS STEEL; FILTERING RETENTION: 70 UM; SUPPL P/N: DDK2-360; DDK2-300; WIRE MESH, MODULE: ARLON DUPLEX, FOR UNIT 1 DENCO UNIT; 70 MICROMETERS FILTERS WITH INNER AND OUTER SUPPORT		
14	0215702	FILTER, ELEMENT: TYPE: OIL; DIMENSIONS: 39 IN; MATERIAL: EPOXY FIBER RESIN BONDED; FILTERING RETENTION: 5 UM; MANUF P/N: HC8300FKP39H; REPLACEMENT PALL ULTIPOR III FILTER ELEMENT; MANUFACTURED BY PALL CORPORATION; USED ON BULK OIL PLANT SYSTEM (I.E CLEAN AND USED DUPLEX FILTRATION UNITS AS WELL AS ON THE SIMPLEX TRANSFER FILTRATION UNITS); APPROVED SOLE SOURCE: APPLIED FILTRATION SERVICES; VENDOR NUMBER: 11066195	10	EA
15	0024972	FILTER, ELEMENT: TYPE: AIR; DIMENSIONS: ID 133 X OD 231 X LG 505 MM; MATERIAL: PAPER; SUPPL P/N: ADG-783; ONE SIDE OPEN, OTHER SIDE CLOSED WITH 10MM HOLE	10	EA
16	0045809	FILTER, ELEMENT: DIMENSIONS: DIA 80 X LG 470 MM; MATERIAL: PAPER; FILTERING RETENTION: 25 UM; REFERENCE NO: 85-390; OIL, FOR ELECTRIC FEED PUMP , STAR PLEATED MESH , USED IN LUBRICATION OIL COOLERS , BOLL AND KIRSCH TYPE 2.04.5	10	EA
17	0221754	FILTER: TYPE: WASHABLE V; DIMENSIONS: WD 510 X LG 585 X THK 48 MM; MATERIAL: STL; MICRON: 100 UM; SPECIFICATION: ISO 5011; SUPPL P/N: WV350; FOR GENERATOR IPB FAN, 98 PER CENT EFFICIENCY	10	EA
18	0221721	FILTER: DIMENSIONS: WD 2 M X THK 18 MM; MATERIAL: PLASTIC/STL; MICRON: 100 UM; MEDIUM: DUST; SPECIFICATION: ISO 5011; SUPPL P/N: Q1121.12.2005; U50, 98PCT EFFICIENCY	10	EA
ITEM NO	MATERIAL	DESCRIPTION	QTY	UMC
19	0138941	FILTER, ELEMENT: DIMENSIONS: DIA 100 X LG 260 MM; MATERIAL: PAPER; REFERENCE NO: P10-1275 A.D.G. 543; P10-1275; DURALIFE	10	EA
20	0235632	FILTER, ELEMENT: TYPE: MEDIA WASHABLE; DIMENSIONS: WD 2 X LG 20 M; MATERIAL: FIBER SYNTHETIC; FILTERING RETENTION: 4 UM; SUPPL P/N: FR800; FOR USE ON AIR FILTERS	10	EA
21	0024973	FILTER, OIL: DIMENSIONS: ID 33 X OD 90 X LG 90 MM; MATERIAL: PAPER; SCFPN 6731A	10	EA
22	0039752	FILTER, ELEMENT: TYPE: LIQUID; DIMENSIONS: ID 2.58 X OD 6 X LG 18 IN; MATERIAL: CELLULOSE PLEATED; FILTERING RETENTION: 1 UM; SUPPL P/N: FDEX P6018-1A2; REFERENCE NO: P6018-1A2; OUTER COVER PERFORATED STEEL; CENTER TUBE; END CAPS STEEL; GASKET MATERIAL FIBER; USED IN FILTERALL CT-5000 AND CT- 1200- AD TURBINE OIL COALESCER OR PURIFIER UNITS ON THE TURBINE PLANT	8	EA
23	0565831	FILTER, OIL: TYPE: CARTRIDGE; DIMENSIONS: DIA 50 X LG 200 MM; MATERIAL: ALUMINIUM; MICRON: 5; APPLICATION: COMPRESSOR; PRESSURE RATING: 150 KPA; MANUF P/N: AAP1404040-00213; CENTRIFUGAL COMPRESSOR OLD - UNIT 1; UNIT 2; UNIT 3; B4ABFSA	10	EA

		AND DF 6A		
24	0024978	FILTER, OIL: TYPE: CARTRIDGE; DIMENSIONS: ID 80 X OD 130 X LG 230 MM; MATERIAL: PAPER; REFERENCE NO: 5S485K; 55485	10	EA
25	0565822	FILTER, ELEMENT: TYPE: AIR; DIMENSIONS: DIA 20 X LG 240 MM; MATERIAL: ALUMINIUM; FILTERING RETENTION: 5 UM; MANUF P/N: AAMB796039-00003; CENTRIFUGAL COMPRESSOR NEW BF4B; BF5B AND BF6D	10	EA
26	0024873	FILTER, OIL: TYPE: SUCTION; DIMENSIONS: DIA 100 X LG 210 MM; MATERIAL: CU; SUPPL P/N: CU 250 M90N 270; REFERENCE NO: CT 5000-S; FOR BULK AND PORTABLE PURIFIER , STRAINER/FILTER BEFORE PUMP	10	EA
27	0221720	FILTER: TYPE: COALESCER; DIMENSIONS: DIA 74 X LG 154 MM; MATERIAL: PLASTIC/STL; MICRON: 40 UM; SUPPL P/N: F602-03BJ	10	EA
28	0568755	FILTER, ELEMENT: TYPE: AIR; DIMENSIONS: DIA 77 X LG 130 MM; MATERIAL: STAINLESS STEEL; FILTERING RETENTION: 400 UM; MANUF P/N: AA90540010-07300	10	EA
29	0050232	FILTER: TYPE: PUMP SUCTION; MICRON: 20 UM	10	EA
30	0045711	FILTER, OIL: DIMENSIONS: ID 40 X OD 75 X LG 220 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 86220 ST1; 86220ST1	10	EA
31	0144110	BREATHER: TYPE: TRANSFORMER; MATERIAL: PLASTIC; DIMENSIONS: DIA 120 X LG 520 MM; CONNECTION: BSP 1/2 IN; REFERENCE NO: ARIES3000; SILICA GEL, CAPACITY 3.4 KILOGRAM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10	EA
32	0024888	FILTER, ELEMENT: DIMENSIONS: ID 15 X OD 20 X LG 31 MM; SUPPL P/N: AEK504Y; CONTROL LINE FOR USE ON COOPER TURBO TA2000 COMPRESSOR	10	EA
33	0501569	BREATHER: TYPE: AIR; MATERIAL: POLYPROPYLENE; DIMENSIONS: DIA 118 X LG 151 MM; CONNECTION: 1-1/2 IN; MANUF P/N: HC0293SEE5; 3 MICRON ELEMENT, 16 UN - 2B; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10	EA
34	0137041	SCREEN: MATERIAL: SS GR 316; MICRO WIRE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10	EA
35	0045710	FILTER: DIMENSIONS: ID 40 X OD 75 X LG 310 MM; MATERIAL: STAINLESS STEEL; MICRON: 20 UM; REFERENCE NO: SC135310ST2; OUTER ELEMENT 310MM LG X 120MM OD X 85MM ID, OUTER PROTECTION SLEEVE 10 MESH, THE MATERIAL FOR THE TOPS AND MESCH SHOULD BE MILD STEEL OR STAINLESS STEEL NOT ALUMINIUM FOR PUMP	10	EA
36	0050052	FILTER, OIL: DIMENSIONS: ID 65 X OD 154 X LG 452 MM; MATERIAL: PAPER; MICRON: 5 UM; APPLICATION: PURIFIER; RECYCLE THE PROCESS OF PURIFYING OIL, PLUS 2MM RUBBER/CORK GASKETS	10	EA

37	0024887	FILTER, OIL: DIMENSIONS: ID 15 X OD 21 X LG 31 MM; REFERENCE NO: MB796039-0002; ELEMENT KIT, FOR COOPER TA2000 COMPRESSOR	10	EA
38	0024968	FILTER, ELEMENT: TYPE: AIR; DIMENSIONS: SQ 610 X THK 65 MM; MATERIAL: PAPER; FOR CAT ENGINES NUMBER D346	10	EA
39	0527353	FILTER, ELEMENT: TYPE: PURIFIER; DIMENSIONS: ID 105 X OD 150 X LG 991 MM; MATERIAL: GLASS FIBER; FILTERING RETENTION: 7 UM; MANUF P/N: HC 8300 FKN 39 H; 7MM ABSOLUTE WITH NITRILE O- RINGS FOR LUBE OIL; PRESSURE RATING: 10 BAR	10	EA
40	0017206	DESICCANT: TYPE: ENVIRO GEL; CONTAINER: BAG PLASTIC 25 KG; MESH: 3-6 MM; GRADE: 3; ENVIROGEL IS A BEADED OR CRYSTAL FORM; FREE-FLOWING 3-6 MM AND NARROW-PORE ORANGE SILICA GEL FREE OF COBALT CHLORIDE; SUITABLE FOR USE IN TRANSFORMER BREATHER APPLICATIONS; SUPPLIED IN 25 KG BAGS; BEFORE PACKING MUST BE SIEVED FOR COMPLIANCE TO PARTICLE SITES; MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH DELIVERY	500	KG
41	0024970	FILTER, ELEMENT: TYPE: OIL; DIMENSIONS: ID 40 X OD 100 X LG 235 MM; MATERIAL: PAPER; REFERENCE NO: 5S0484; LUBE CAT E	10	EA
42	0050233	FILTER, OIL: DIMENSIONS: DIA 200 X LG 580 MM; MATERIAL: PAPER; PUMP	10	EA
43	0256125	FILTER, ELEMENT: TYPE: OIL PURIFIER; DIMENSIONS: 39 IN; MATERIAL: EPOXY FIBER RESIN BONDED; FILTERING RETENTION: 12 UM; MANUF P/N: HC8300FKS39H; REFERENCE NO: HC8300F; REPLACEMENT PALL ULTIPOR III FILTER ELEMENT: MANUFACTURED BY PALL CORPORATION; TO BE USED ON BULK OIL PLANT SYSTEM (I.E. CLEAN AND USED DUPLEX FILTRATION UNITS); SOLE SOURCE APPROVED: APPLIED FILTRATION SERVICES; VENDOR NUMBER: 11066195 AND EXPIRES: 2017/07/14	10	EA
44	0565821	FILTER, ELEMENT: TYPE: AIR; DIMENSIONS: DIA 25 X LG 220 MM; MATERIAL: ALUMINIUM; FILTERING RETENTION: 5 UM; MANUF P/N: AAP1404040-00201; CENTRIFUGAL COMPRESSOR OLD UNIT 1; UNIT 2; UNIT 3 BF4A; BF5A AND BF6A	10	EA
45	0578609	STRAINER: TYPE: OIL; DIMENSIONS: ID 2.95 X OD 5.1 X LG 9.8 IN; MATERIAL: STL MESH; FILTERING RETENTION: 90 UM; MESH: 90 MM; MANUF P/N: CU630M90; USED IN FILTERALL CT-5000 AND CT-1200-AD TURBINE OIL COALESCER/PURIFIER UNITS ON THE TURBINE PLANT	10	EA
46	0041475	FILTER, ELEMENT: TYPE: LIQUID; DIMENSIONS: ID 3.50 X OD 6 X LG 28.7 IN; MATERIAL: CELLULOSE SYNTHETIC BLEND; FILTERING RETENTION: 5 UM; SUPPL P/N: C6028- 5PI; REFERENCE NO: C6028SP; OUTER COVER COTTON SOCK; CENTER TUBE TIN PLATED STEEL; END CAPS ALUMINIUM; GASKET MATERIAL FLAT BUNA-N; USED IN FILTERALL CT-5000 AND CT- 1200-AD TURBINE OIL COALESCER OR PURIFIER UNITS ON THE TURBINE PLANT	8	EA

47	0579057	FILTER, ELEMENT: TYPE: COALESCER ELEMENT LIQUID; DIMENSIONS: ID 3.5 X OD 6 X LG 14.4 IN; MATERIAL: CELLULOSE SYNTHETIC BLEND; FILTERING RETENTION: 2 UM; MANUF P/N: C6014-5P1; OUTER COVER: COTTON STOCK; CENTER TUBE: TIN PLATED STEEL; END CAPS: ALUMINIUM; GASKET MATERIAL: FLAT BUNA-N; USED IN FILTERALL CT-5000 AND CT-1200-AD TURBINE OIL COALESCER/PURIFIER UNITS ON THE TURBINE PLANT	50	EA
48	0041474	SEPARATOR: TYPE: SCREEN; MATERIAL: TEFLON COATED; SUPPL P/N: S6028-T1; OUTER COVER NONE; CENTER TUBE TIN PLATED STEEL; END CAPS TIN PLATED STEEL; GASKET MATERIAL FLAT BUNAN-N; OUTER DIAMETER 6 INCH; INNER DIAMETER 3.50 INCH; LENGTH 29.30 INCH; EFFICIENCY N/A; USED IN FILTERALL CT-5000 AND CT- 1200- AD TURBINE OIL COALESCER OR PURIFIER UNITS ON THE TURBINE PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10	EA
49	0572290	FILTER, ELEMENT: TYPE: LIQUID; DIMENSIONS: ID 2.63 X OD 6 X LG 36 IN; MATERIAL: CELLULOSE PLEATED; FILTERING RETENTION: 1 UM; MANUF P/N: P6036-1A2; OUTER COVER PERFORATED STEEL; CENTER TUBE PERFORATED STEEL; END CAPS STEEL; GASKET MATERIAL FIBER	50	EA
50	0582550	SEPARATOR: TYPE: SCREEN; MATERIAL: TEFLON COATED; MANUF P/N: S6011-T1; CENTER TUBE: STAINLESS STEEL; END CAPS: STAINLESS STEEL; GASKET MATERIAL: FIBER; OUTER DIA: 6 INCH; INNER DIA: 3.50 INCH; LENGTH: 11.30 INCH; EFFICIENCY: 100; USED IN FILTERALL CT-500 AND 1200-AD TURBINE OIL COALSCER/PURIFIER UNITS ON THE TURBINE PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10	EA
51		SAFETY FILE (FIRST YEAR)	1	SUM
52		SAFETY FILE (YEARS 2-5)	4	ANNUALLY