

## PART 3: SCOPE OF WORK

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## 1 Overview and purpose of the goods and services

Provide an overview as an aide to the tendering supplier summarising the nature and purpose of the *goods* and the associated *services* (if any), together with some details about the supply requirements.

The manufacture and supply of complete sets of Fabric filter bags for Arnot, in accordance with the attached Fabric filter bag specifications, to the *final* destination on the Delivery Date as indicated in the delivery schedule. The goods furthermore include the supply of all labour, materials, and equipment required for the manufacture and supply of the bags.

All of the *works* shall be instructed by means of Purchase Orders issued by the *Project Manager Purchaser* at any time during the term of the contract. The Price for each item shall be taken from the Price List. Technical, quality, and workmanship requirements for the *works* are described in quality control procedures (QCPs) provided by the *Purchaser* and accepted by the *Project Manager* before work is carried out.

### 1.1 Interpretation and terminology

Abbreviation	Description
°C	Degrees Celsius
dtex	Decitex
FFP	Fabric Filter Plant
g/m <sup>2</sup>	Gram per square meter
g/Nm <sup>3</sup>	Gram per normal cubic meter (normalised to 6% O <sub>2</sub> on a dry basis at 101.325 kPa & 0 °C)
K	Kelvin
kPa	Kilo Pascal
Max	Maximum
MCR	Maximum Continuous Rating
mg/Nm <sup>3</sup>	Milligram per normal cubic meter (normalised to 10% O <sub>2</sub> on a dry basis at 101.325 kPa & 0 °C)
Min	Minimum
mm	Millimeter
N/cm	Newton per centimetre
Nm <sup>3</sup>	Normal cubic meter (normalised to 10% O <sub>2</sub> on a dry basis at 101.325 kPa & 0 °C)
O <sub>2</sub>	Oxygen
Pa	Pascal
PI	Polyimide (P84 ®)
PPS	Polyphenylene sulphide

## 2 Specification and description of the goods

The content of this section is the meat of the scope of work and will depend on the nature of the *goods* required. For example the *goods* may already be available from the *Supplier*, and just need minor alterations to meet the *Purchaser's* requirements, or they may be unique and designed specifically for this contract. Accordingly there may be a need to:

- § Provide full technical specifications of the *goods* or the *Purchaser* may, as an alternative, provide a user requirement specification (URS) for the *goods* from which the *Supplier* then designs the *goods* to achieve the required performance.
- § Provide drawings and information about the environment where the *goods* are to be put to use.

§ Provide specifications of the component parts (plant and materials) used in the *goods* which may include minimum material standards and workmanship.

The specifications may be included here or provided as Annexure and just listed here.

The *Purchaser's* objectives for this contract include:

- Supply and delivery of fabric filter bags to the station in line with the terms and conditions of this contract
- Ensuring that Eskom accepts and receives high quality filter bags which are reliable, efficient and operating throughout their intended life expectancy.
- Sustaining and improving the efficient operation of its power station's emission performance
- Encouraging a long-term commercial relationship with the *Purchaser* based on mutual trust, commitment to common goals and an understanding of each Party's expectations and values. Innovation and open communication shall be encouraged;
- Encouraging the *Purchaser* to become a world-class and internationally competitive Purchaser of high quality fabric filter plant bags by deploying competent skills and the application of continuous measured productivity and quality improvements;
- Ensuring the application, implementation and development of appropriate filter bag design, manufacturing and testing techniques;
- Developing performance standards which support the *Purchaser's* reliability and optimised availability targets;

The *Purchaser* shall provide adequate resources and engineering capability to support the *Purchaser's* objectives.

## 2.1 *Purchaser's* design

Clause 21.1 requires that the *Purchaser* states which parts of the *goods* he is to design. Complete as required or delete. Be careful not to duplicate what may already be covered in the *Purchaser's* operating philosophy / user requirement specification (URS) / performance specification described elsewhere in this Goods Information.

The *Purchaser* provides fabric filter bags in accordance with the Product Information, including the design and manufacturing of the fabric and the filter bags to suit the process specifications and the installation onto the existing bag cages and tube plate.

The *Purchaser* will ensure the following minimum local representation in the manufacturing of the bags:

- Tubing and cutting to size of the fabric.
- Manufacturing of the cuff and sock components.
- Assembly of the completed bag.

The following products, components, and Purchasers are approved by Eskom. No other substitutes will be accepted and the *Purchaser* will provide written assurance as such.

Products:

- Polyphenylene sulphide (PPS) – Trade Names: Procon, Torcon or Nexylene
- Polyimide (PI) – Trade Name: P84

## 2.2 Procedure for submission and acceptance of *Supplier's* design

Not applicable

## 2.3 Other requirements of the *Supplier's* design

Not applicable

## 2.4 Use of *Supplier's* design

Not applicable

## 2.5 Manufacture & fabrication

None

## 2.6 Factory acceptance testing (FAT)

### Samples required for testing

Eskom requires 1 (one) square meter (minimum) of sample fabric for every 10 000 m<sup>2</sup> of fabric produced. The certificates detailing full test results carried out on the fabric and scrim to determine compliance with the standard should be included with the fabric sample.

Furthermore, Eskom requires an additional 4 square meters of fabric plus 2 square meters of the raw scrim per unit that will be removed during the bag manufacturing process for compliance evaluation (at random and at discretion). The provision and cost of this additional fabric must be included in the scope of supply in any contract.

Fabric that does not conform to the standard will need to be rejected and new material that conforms to the standard will need to be produced.

Furthermore, the *Supplier* make provision for an additional 4 square meters of fabric plus 2 square meters of the raw scrim per unit that will be removed at the *Purchaser's* discretion during the bag manufacturing process for compliance evaluation. The provision and cost of this additional fabric must be included in the scope of supply.

Fabric batches that do not conform to the specification will be rejected. The *Supplier* will at his own cost ensure that the non-conforming fabric and bags are replaced within the delivery time frames as specified in the contract.

## 2.7 Other tests and inspections and commissioning in place of use

### Inspection during manufacture

The *Supplier* carries out complete inspection at all stages of fabric and bag manufacture. The *Supplier* repairs defects revealed during the routine quality control checks, provided the *Supplier* demonstrates to the *Purchaser's Representative* satisfaction that such repairs do not, in any way, lessen the service life and performance of the material. The *Purchaser's Representative* may carry out a random inspection of the fabric and bags during manufacture.

The *Supplier* submits QA data sheets including test data. The data sheets must include, as a minimum, the results for measurements of the following parameters:

Raw Materials:	Certificates of compliance and source of material and periodic batch tests of all components and raw materials.
Fabric Manufacture:	Weight, Thickness, Air permeability, Breaking Strength and % elongation at 50 N/cm and at break, (warp and weft directions) P84 content and the Dimensional Stability free shrinkage 180 °C for (PPS) over 24 hours, warp and weft.
Bag Manufacture:	Length (under 5 kg tension), flat width and general compliance to Eskom Drawings.

All certificates are to reflect the Eskom order number.

## Bag Testing Requirements

### Raw Materials

Certificates of compliance, source of material and periodic batch tests of all components and raw materials will need to accompany material at all stages.

### Fabric Manufacture

The following items will need to be verified according to the required limits as per section 3.1 and 3.2 depending on the bag material standard.

- Weight
- Thickness
- Air permeability
- Breaking Strength
- Percentage elongation at 50 N/cm and at break (warp and weft directions)
- P84 content (if part of bag material)
- Dimensional Stability
- Microscopic analysis confirming cascade fabric construction.

### Bag Manufacture

The length of the bag, flat width and compliance to bag drawing needs to be verified under a 50N load.

### Labelling and Packaging of bags

Labels that identifies each bag with a colour and/or shape coded tag showing the batch and bag number sewn into the top outer cuff such that it may be linked to all relevant information including the name of any manufacturing Purchaser needs to be attached to newly manufactured bags. No repeatability of tags and numbers will be allowed.

The packaging needs to be clearly marked with the fabric type and order number. Any other relevant information pertaining to the particular shipment should also be marked. Each package contains approximately 10 to 15 bags to facilitate manual handling by one person.

All bags in each package needs to be packed in sealed non-transparent plastic bags. The packaging must clearly differentiate between routine spares bags and the complete spare unit bags.

## 2.8 Operating manuals and maintenance schedules

Not applicable

## 3 Supply Requirements

The Supply Requirements for this contract are part of the specification provided below.

## 4 Specification of the services to be provided

See the Fabric Filter Plant Bag Standard: 240-53113965 for **Arnot Power Station**.

### PPS/PI SPECIFICATION FOR ARNOT

#### Needle Felt Standard and Cloth Construction

Fabric construction:	Scrim supported needle felt
Fibre chemical name:	Polyphenylene sulphide (PPS) – Procon, Torcon or Nexylene
Weight:	580 – 620 g/m <sup>2</sup> range, 600 g/m <sup>2</sup> average
Fabric thickness:	Minimum 1.8 mm
Sides needled	Both
Sewing Thread	Polyphenylene sulphide (PPS) – Procon, Torcon or Nexylene
Snap band	Riveted/Welded Stainless Spring Steel (Diameter to fit tube plate)
Cuff Seal (if applicable)	Endless Rontex Ring (PPS) – Procon, Torcon or Nexylene
Cuff Material	Polyphenylene sulphide (PPS) – Procon, Torcon or Nexylene
Foot/Sock Material	Polyphenylene sulphide (PPS) – Procon, Torcon or Nexylene

- **Scrim**

Construction:	The scrim will be woven from Polyphenylene sulphide (PPS) yarns.
Material:	Polyphenylene sulphide (PPS) – Procon, Torcon or Nexylene
Yarn type:	Spun staple yarn and/or multifilament
Weight:	175 -185 g/m <sup>2</sup> before needling (Loom State)
Fibre Dimension:	2.2 dtex

- **Batt – Cascade Construction**

- **Surface Layer (First Surface Layer – Dust Side)**

*Construction: The surface layer will be a blend of the following fibre materials and to be needled as a distinct surface layer.*

Material 1:	Polyimide (P84)
Fibre dimension:	1.7 dtex Multilobal
Weight:	45 - 55 g/m <sup>2</sup> (Before Needling)
Material 2:	Polyphenylene sulphide (PPS) – Procon
Fibre dimension:	1.7 dtex trilobal
Weight:	55 - 45 g/m <sup>2</sup> (Before Needling)

- **Support Layer (Second Inner Layer – Dust Side)**

Material:	Polyphenylene Sulphide (PPS) – Procon, Torcon or Nexylene
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Fibre dimensions: 2.2 dtex  
 Weight: 125 – 135 g/m<sup>2</sup> (Before Needling)

- **Support Batt (Inner Layer – Clean Side)**

Material: Polyphenylene Sulphide (PPS) – Procon, Torcon or Nexylene

Fibre dimension: 2.2 dtex  
 Weight: 190 - 200 g/m<sup>2</sup> (Before Needling)

- **Cloth Construction**

Fabric Construction: Scrim supported needle felt  
 Weight: 580 – 620 g/m<sup>2</sup> range, 600 g/m<sup>2</sup> average  
 Number of sides needed: Both sides

- **Fabric Special Treatments**

Coatings: None  
 Heat Set: Yes, as Required by Purchaser  
 Singeing: Yes, as Required by Purchaser  
 Calendaring: Yes, as Required by Purchaser

- **Fabric Properties**

Air permeability: Arnot Only: 60 l/dm<sup>2</sup>/min (+/- 20%) at 200 Pa  
 Elongation: Warp: max. 6% @ 50 N/cm  
 Weft: max. 8 % @ 50 N/cm  
 Bursting strength: min. 2800 kPa  
 Dimensional stability: (Free shrinkage at 180 °C Dry Warp: max. 1.5%  
 heat for 24 hrs) Weft: max. 1.5%  
 Tensile strength: Warp: min. 9 00 N/50mm  
 Weft: min. 1 200 N/50mm

- **STATION SPECIFIC REQUIREMENTS**

- **Arnot Power Station**

**Process standards**

Continuous operating temperature range (FFP):  
 Gas volume per unit:  
 Flue gas oxygen content:  
 Estimated number of starts per boiler  
 Mode of Operation  
 Inlet dust concentration:

- 110 °C to 175 °C
- Maximum 975 Am<sup>3</sup>/s
- 3% - 15%
- 150 per year
- Base load
- 25 – 50 g/Nm<sup>3</sup>

**Performance requirements**

Filtration velocity with one cell isolated:  
 Filtration velocity with all cells in-service:  
 Material Selection:  
 Exclusions from standard material standard:

- Maximum 0,020 m/s
- Maximum 0,018 m/s
- PPS/PI
- None

- - Bag drawing number • 26.41.38198 (latest revision)
  - Bag length • 8 meters
  - Bag diameter • 135 mm
  - Required operational hours (max number of bags failing during this period) • 32 000 (3%)
  - Expected emission limits • 30 mg/Nm<sup>3</sup>
  - Maximum emission limits • 50 mg/Nm<sup>3</sup>
  - Maximum pressure drop • 2.4 kPa (flange to flange @ MCR with one cell isolated)
- The *Contractor* manufactures the bag according to the details shown on the attached drawing No 26.41.38198 Rev (latest)
  - The double circular base and the 100 mm wide reinforcing strip will be off 100% PPS.
  - The Filter Bag detail comprises of a 8040 mm x 146 mm diameter bag with one end open with Stainless Steel snap band covered with a felt strip sewn into a woven false hem with 4 rows of stitching to fit cell plate 155 mm diameter x 5 mm thick. The other end is closed with double circular base with exterior base the filter fabric and the interior base 100% PPS plus 100 mm wide reinforcing strip also from 100% PPS treated side outside.
  - The snap band joint is to be riveted.
  - The longitudinal seam of the bag shall be triple stitched.
  - The sewing thread will be compatible with PPS.
  - The stitching thread will be 100% PPS (Procon, Torcon or Nexylene)
  - It is the *Supplier's* responsibility to ensure that the bags fit correctly into the tube plate and cages.
  - Before bag manufacturing will commence the *Supplier* will provide a sample bag to the *Purchaser* for his evaluation and acceptance.
  - No manufacturing of bags will commence prior to the *Purchaser's* representative receiving, analysing and releasing the fabric following fabric tests done by the *Purchaser's* RT&D department.

## 5 Constraints on how the *Supplier* Provides the Goods

### 5.1 Programming constraints

Read clause 31.2 first then state what additional information (if any) is to go in the programme per the last bullet of clause 31.2. Describe any particular constraints on the order and timing of the work which the *Supplier* must take into account in his programme.

### 5.2 Work to be done by the Delivery Date

Clause 11.2(5) defines Delivery as when the *Supplier* has done all the work which the Goods Information states he is to do by the Delivery Date. The defined term "Delivery" is used in this contract to identify when a stage, or amount of work has been achieved. This may be more than the common meaning of "delivery" and could include the passing of specified tests, provision of documentation and packing and preparation for air freight or shipping to the *Purchaser's* nominated Delivery Place specified in the Supply Requirements.

Either list here what has to be done in order to constitute "Delivery", or list what may remain undone and be completed after the Delivery Date by stating that everything else must be done before Delivery.

### 5.3 Marking the goods

If this contract requires the *goods* be paid for before they are brought within the Delivery Place, core clause 71.1 requires that the Goods Information state how the *Supplier* is to "mark" the *goods*

### 5.4 Constraints at the delivery place and place of use

State any constraints on how the *Supplier* is to provide the *goods* and *services* both at the delivery place and where the *goods* and *services* are to be put into use, e. g. restriction on access, hours of working and sequence of work. Sites such as Sasol Secunda and Koeberg Nuclear Power Station have very strict entrance requirements which tenderers need to allow for in their prices, and the *Supplier* has to comply with. State these or similar requirements here.

### 5.5 Cooperating with Others

Although not a direct requirement of the *conditions of contract* if the *Purchaser* is aware of the *Supplier's* need to co-operate with Others (for example where the supply is to one of the *Purchaser's* contractor's on a project or design of the *goods* needs to be discussed with Others) details could be given here.

### 5.6 Services & other things to be provided by the *Purchaser* or *Supplier*

Clause 23.2 requires that the Goods Information state what services and other things are to be provided by the Parties, each to the other as part of the supply process. This has nothing to do with the *services* identified in the Contract Data. It would include temporary services and things needed to facilitate the supply, such as cranes provided by the *Purchaser* for offloading of the *goods*.

### 5.7 Management meetings

Regular meetings of a general nature may be convened and chaired by the Contract *Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk register and compensation events	On as and when required basis.	MS Teams or site	<i>Purchaser</i> , <i>Purchaser</i> , <i>Supervisor</i> , and people requested by the <i>Purchaser</i>
Overall contract progress and feedback	On as and when required basis.	MS Teams or site	<i>Purchaser</i> , <i>Purchaser</i> , <i>Supervisor</i> , and people requested by the <i>Purchaser</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Goods Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the goods. Records of these meetings shall be submitted to the *Project Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using 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 contract* to carry out such actions or instructions.

## 5.8 Documentation control

Specify how documentation will be identified with an alpha numeric which indicates source, recipient, communication number etc. Provide details of any particular format or other constraints; for example that all contractual communications will be in the form of properly compiled letters or forms attached to e mails and not as a message in the e mail itself. State any particular routing requirements but note from SC who issues what to whom.

## 5.9 Health and safety risk management

In addition to the requirements of the laws governing health and safety, the *Purchaser* may have some additional requirements particular to the *goods* and the location where they are to be delivered for this contract. This is a requirement of clause 25.4.

The *Supplier* shall comply with the health and safety requirements [stated here or contained in Annexure \_\_\_\_\_ to this Goods Information].

## 5.10 Environmental constraints and management

Describe or cross refer to environmental constraints applicable to the *Supplier's* design of the *goods* if not already included in the *Purchaser's* URS.

The *Supplier* shall comply with the environmental criteria and constraints [stated here or contained in Annexure \_\_\_\_\_ ]

## 5.11 Quality

The *Supplier* assures that they comply with the ISO 9001 Quality Management System.

The Contract Quality Plan (CQP) shall be submitted to the *Purchaser* for approval before any work commences. Minimum intervention points shall be covered as per ??.

The Quality Assurance (QA) data sheets for fabric are provided at least one week before the bag manufacturing commences.

The QA data sheets for bag manufacture will be provided with the bag delivery.

The *Purchaser* will inspect the quality of the fabric according to the following Eskom Research and Strategy testing methods:

METHOD	ESKOM NUMBER	EQUIVALENT STANDARD
Tearing Strength	62P4004	EN 29073-3
Air Permeability	62P4002	EN ISO 9237 / DIN 53887
Bursting Strength	62P4003	DIN 53861
Breaking Strength	62P4005	EN 29073-3
Thermal Stability	To be advised	UNI 8279/12

P84 Content	To be advised	
Area Weight	-	EN 12127
Thickness	-	EN ISO 9073-2

During inspections

The *Supplier* can view and discuss these methods or other applicable testing methods prior to contract award in order to agree about their suitability with the *Purchaser's Representative*.

All raw materials (i.e. fibre, thread, seals, etc) must come with certificates of compliance.

The data books will also include the details of the tags and numbers with complete traceability to the fabric slit width roll number.

## 5.12 Invoicing and payment

List the information that is to be shown by the *Supplier* on his invoices. State any other requirements relating to payment. For example:

Within one week of receiving a payment certificate from the *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice showing the amount due for payment equal to that stated in the *Supply Manager's* certificate.

The *Supplier* shall address the tax invoice to *Purchaser* and include on each invoice the following information:

- Name and address of the *Supplier* and the *Supply Manager*;
- The contract number and title;
- *Supplier's* VAT registration number;
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- (add other as required)

Add procedures for invoice submission and payment (e. g. electronic payment instructions)

## 5.13 Insurance provided by the *Purchaser*

As per SC3 Core Clause 84.1

## 5.14 Contract change management

This section is intended to deal with any additional requirements to the compensation event clauses in section 6 of the core clauses; such as the use of standard forms. Not the same thing as documentation control.

## 5.15 Provision of bonds and guarantees

The form in which a bond or guarantee required by the *conditions of contract* (if any) is to be provided by the *Supplier* is given in Part 1 Agreements and Contract Data, document C1.3, Sureties.

The *Purchaser* may withhold payment of amounts due to the *Supplier* until the bond or guarantee required in terms of this contract has been received and accepted by the person notified to the *Supplier* by the *Supply Manager* to receive and accept such bond or guarantee. Such withholding of payment due to the *Supplier* does not affect the *Purchaser's* right to termination stated in this contract.

The guarantee period is expected from *Supplier*:

- Arnot PPS bags: minimum of 32 000 operating hours
- The *Supplier* will factor limitations of guarantee into the life cycle evaluation of each offer.

Conditions of guarantee are the following:

- The bags will be pre-coated before exposure to flue gases. The pre-coating agent is to be agreed with the bag Purchaser prior to Contract award (Hydrated lime is proposed). The *Supplier* states the amount of pre-coating required in the tender submission.
- Routine spare/replacement bags will not be pre-coated.
- The guarantee does not cover damaged bags caused by careless installation or faulty cages if the bags installation and cages manufacturing were performed by third parties.
- The guarantee does not cover damaged bags caused by abrasion related to turbulent flows, sparks or glowing dust particles.
- The guarantee does not cover damaged bags caused by a highly acidic environment if the pH of the tested material is lower than 3.0.
- The guarantee does not cover damaged bags caused by encrustation on the filter bags caused by oil carry-over.
- The guarantee does not cover the removal and disposal of faulty bags (up to a maximum of 2.5% of the total bag installed) or the consequential losses resulting from bag failures. The *Purchaser* is however responsible for the supply of the replacement bags.

The *Supplier* shall, at his cost, replace all the bags that fail per each consecutive 1 000 running hours up until the amount in the column "Acceptable failures". The *Supplier* will replace at his own cost all the failed bags per consecutive 1 000 running hours minus the amount indicated in the column "Acceptable failures" [number of bags failed X (guaranteed hours – running hours from installation)/guaranteed hours].

Hours	Acceptable failures
0 - 8000	0
8000 - 9000	0
9000 - 10000	1
10000 - 11000	1
11000 - 12000	1
12000 - 13000	1
13000 - 14000	1
14000 - 15000	1
15000 - 16000	1
16000 - 17000	2
17000 - 18000	2
18000 - 19000	2
19000 - 20000	2
20000 - 21000	2
21000 - 22000	3
22000 - 23000	3
23000 - 24000	3

Hours	Acceptable failures
24000 - 25000	4
25000 - 26000	5
26000 - 27000	5
27000 - 28000	6
28000 - 29000	7
29000 - 30000	8
30000 - 31000	9
31000 - 32000	11
32000 - 33000	12
33000 - 34000	14
34000 - 35000	16
35000 - 36000	19
36000 - 37000	22
37000 - 38000	25
38000 - 39000	28
39000 - 40000	30

## 5.16 Records of Defined Cost, payments & assessments of compensation events to be kept by the *Supplier*

Read clause 63.2 and 11.2(4) and then state whether the *Supplier* is required to keep any records of Defined Cost. Include any other constraint which may be required in regard to format and filing of the records, and whether access for the *Supply Manager* shall be provided in hard copy or electronically.

## 6 Procurement

### 6.1 Subcontracting

#### 6.1.1 Preferred subcontractors

SC does not make use of nominated subcontracting, but the *Purchaser* may list which subcontractors or sub-suppliers the *Supplier* is required to enter into subcontracts with (if any). This is usually only required where plant and materials need to be obtained from a particular supplier or group of suppliers in order to comply with operational standards for the *goods*.

#### 6.1.2 Limitations on subcontracting

The *Purchaser* may require that the *Supplier* must subcontract certain specialised work, or that the *Supplier* shall not subcontract more than a specified proportion of the whole of the contract.

#### 6.1.3 Spares and consumables

Not applicable

#### 6.1.4 Other requirements related to procurement

Other requirements such as ASGISA or socio political enhancements the *Supplier* is to provide as part of Providing the Goods and Services (if any) could be included here.

#### 6.1.5 Cataloguing requirements by the *Supplier*

Not applicable

## 7 List of drawings

### 7.1 Drawings issued by the *Purchaser*

This is the list of drawings issued by the *Purchaser* at or before the Contract Date and which apply to this contract.

Drawing number	Revision	Title
26.41.38198	2	Fabric Filter Plant Detail of filter bag


**Appendix 1: Fabric Filter Bag information sheet****Fabric Filters Information Sheet****To be completed for each offer (per unit per station)****Company Details**

Company Name			
Company Address			
Contact Person			
Telephone Number		Fax Number	
Destination Company		Bag Code	

**Bag Dimensions**

Length (m)	
Diameter (mm)	

**Physical Characteristics**


Tensile strength	Warp (N/5cm)	
	Weft (N/5cm)	
Tearing strength	Warp (N)	
	Weft (N)	
Bursting strength (kPa)		
Air permeability (m <sup>3</sup> /dm <sup>2</sup> /s) at 125 Pa		
Fabric weight (g/m <sup>2</sup> )		
Fabric thickness (mm)		
Elongation at 50N/cm (%) warp and weft		

**Snap Band Construction**

Material	
Dimensions	
Joining of snap band (i.e., describe the fitting)	

**Cuff and Sock Band Construction**

Material	
Type of fibres	
Fibre sizes (denier)	
Dimensions	
Weight (g/m <sup>2</sup> )	





Fabric Construction				
Scrim				
Type of fibre				
Weight (g/m <sup>2</sup> )				
Fibre size (denier)				
Yarn size (no. of fibres)				
Type of yarn (spun or multifilament)				
Number of yarns per cm (warp and weft)				
Type of weave				
Batt				
Number of layers				
<b>Surface batt</b>				
Type of fibres				
Fibre sizes (denier)				
Weight of fibres in layer				
Other				
<b>Second layer</b> (if applicable)				
Type of fibres				
Fibre sizes (denier)				
Weight of fibres in layer				
Other				
<b>Inside batt</b>				
Type of fibres				
Fibre sizes (denier)				
Weight of fibres in layers				
Other				
Fabric Surface Finish				
Heat setting				
If yes, describe in detail (temperature, dwell time)				
Coatings				
If yes, describe in detail (type)				
Singed				
If yes, describe in detail (time and type of exposure)				
Calendered				
If yes, describe in detail (temperature, pressure, speed)				
Dimensional Stability				

Shrinkage in both directions (%) 150°C (for PAN) or 180°C (for PPS) over 24 hours	Warp	
	Weft	
<b>Sewing Tread</b>		
Type		
<b>Are the bags...</b>		
Thermowelded		Stitched

## C3.2 *SUPPLIER'S* GOODS INFORMATION

This section of the Goods Information will always be contract specific depending on the nature of the *goods* and *services*.

It is most likely to be required for supply contracts where the tendering supplier will have proposed specifications and schedules for the *goods* and *services*, which once accepted by the *Purchaser* prior to award of contract now become obligations of the *Supplier* per core clause 20.1.

This section could also be compiled as a separate file.

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