 Eskom	Scope of Work	Kriel Power Station
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Title. The supply and delivery of plumbing spares to Kriel Power Station on an "as and when" required basis for a period of three years.

Document Identifier

Alternative Reference Number

Area of Applicability.

Eskom Holdings SOC Ltd

Functional Area

Civil Maintenance

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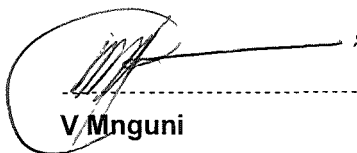
Disclosure Classification

Controlled Disclosure

Compiled by

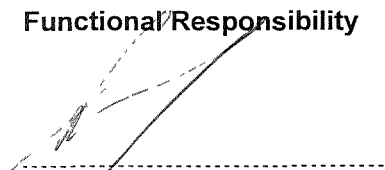
Functional Responsibility

Approved by



V Mnguni

Civil Maintenance Supervisor



S Ngwenya

Auxiliary Maintenance line Manager



L Gumbi

Maintenance Manager

Date

24/08/2022

Date

24/08/2022

Date

02/09/2022

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### C3.1 Goods Information

The goods information is for the supply and delivery of plumbing and associated spares to Kriel Power Station on an "as and when" required basis for a period of three years. The Supplier will receive a purchase order notification of the required goods, on which he/she shall submit a delivery schedule or plan within one week of receiving notification. The supplier shall supply goods according to required specifications and quantities within the agreed timelines.

As a tender evaluation criteria, the tenderer to reflect the standard availability in the market by indicating the manufacturer, applicable standard during manufacturing and delivery lead time of the different items. The tenderer to provide this information based on their resources and practicality for delivery as this will form part of the contract agreement when successful.

#### 1. Description of the goods

The required goods are as detailed in the list below and shall comply with applicable SANS standards provided, the Supplier is to read the standards in conjunction with referenced standards with the one standard itself. The Supplier to note that one standard for piping will reference the rubber fitting standard that the piping should be fitted with. Failure to read and ignore can result in supply of wrong materials which can be rejected by end user. The supplier is expected to provide a detailed programme/plan with dates within 3 days of receiving the purchase order and deliver goods within 7 - 14 working days maximum thereafter.

<b>CONEX FITTINGS</b>
15 Mm Diameter 90 Degree Bend Copper to Copper
15 Mm X G3/4 Diameter Coupler Straight Reducing Copper to Female Iron Fittings
15 Mm X G 3/4 Diameter 90 Degree Copper to Male Iron Fitting
15 Mm X G 3/4 Diameter 90 Degree Copper to Female Iron Fitting
15 Mm Diameter Stop End Compression
15 Mm X G 1/2 Diameter Pillar Tap Adaptor Copper to Female Iron Fittings
28 Mm X 15 Mm Diameter Reducer Multi Step Copper to Copper Fittings
22 Mm X 15 Mm Diameter Reducer Single Step Copper to Copper Fittings
15 Mm X 15 Mm X G 1/2 Tee Copper to Copper Female Iron Branch Fittings
15 Mm X 15 Mm X G 1/2 Tee Copper to Copper Male Iron Branch Fittings
15 Mm X G 1/2 X 15 Mm Tee Copper to Female Iron to Copper Run Equally Reduced Fittings
15mm X 15 Mm X 22 Mm Tee Reducing Copper to Copper Fittings
15 mm Diameter Straight Coupler
15 mm Diameter T Equal Piece Copper to Copper-to-Copper Fittings
15 mm Diameter 90 Degree Bend Copper to Male Iron Fitting

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15 mm X G1/2 Diameter 90 Degree Swivel Elbow Copper to Female Iron Fitting
22 mm Diameter Coupler Straight Reducer Copper to Copper Fittings
22 mm X G1 Diameter Coupler Straight Reducing Copper to Male Iron Fittings
22 mm X G1 Diameter Coupler Straight Reducing Copper to Female Iron Fittings
22 mm X G 1 Diameter 90 Degree Copper to Male Iron Fitting
22 mm X G 3/4 Diameter 90 Degree Copper to Female Iron Fitting
22 mm Diameter Stop End Compression
22 mm X G 3/4 Diameter Pillar Tap Adaptor Copper to Female Iron Fittings
35 mm X 22 Mm Diameter Reducer Multi Step Copper to Copper Fittings
28 mm X 22 Mm Diameter Reducer Single Step Copper to Copper Fittings
22 mm X 22 Mm X G 3/4 Tee Copper to Copper Female Iron Branch Fittings
22 mm X 22 Mm X G 3/4 Tee Copper to Copper Male Iron Branch Fittings
22 mm X G 3/4 X 22 Mm Tee Copper to Female Iron to Copper Run Equally Reduced Fittings
22mm X 22 Mm X 28 Mm Tee Reducing Copper to Copper-to-Copper Fittings
Kwikflo Pressure Control Valve G3/4 F1 Inlet and Outlet and G1/2 F1 Expansion Outlet Max Inlet Pressure 2500 KPa System Pressure 400 KPa
Master Flow No 1400kpa Cobra
Master Flow Kit No 1400kpa Cobra
Master Flow No 2 100kpa Cobra
"Beta" Close Couple Ceramic Toilet Pan and Cistern
"Beta" Semi-Close Coupler Toilet Pan and Cistern
Plastic White Double Flap Toilet Seats
"Beta" Valve Complete Parker 411-02002 LL-BIDO
Urinal Flat Back Vaal 0010
Flush Master Jnr Urinal Valve Fj 6000
Urinal Tail Pipe FJT 55
Vac Break 111 Vacuum Breaker - Single Jumper 15 Mm C X C
Vac Break 111 Vacuum Breaker - Single Jumper 22 Mm C X C
15 mm Diameter "Dutton" Float Valve

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15 mm Diameter Stilflo Valve
15 mm Diameter Tap Jumper
22 mm Diameter Tap Jumper
38 mm Diameter "P"- Trap Rubber
38 mm Diameter "S"- Trap Rubber
19 Gram Butane Gas
500 MI UPVC Glue
Hemp For Galvanized Thread
15 mm Diameter Chromium Plated Shower Rose
Latco (Twin Pack) 100 KPa
50 mm Diameter UPVC 90 Degree Bend
50 mm Diameter UPVC Inspection Bend
50 mm Diameter UPVC Straight Coupler
50 mm Diameter UPVC T Piece
50 mm Diameter 45 Degree UPVC Bend
Rubber Cones
22 mm Diameter "Brass" Tap
G 3/4 Inlet X G 3/4 Outlet with Hose Union and Hose Tail Standard Brass
G 3/4 Stop Tap F1 X F1 Standard Brass
11 Litre Plastic Toilet Cistern
Dual Flush Valve (FPDF) For Liquid Lever 1 And Solid Lever 2
15 Mm "Cobra" Basin Taps
15 Mm Gala Basin Mixer One Hole Single Lever Mixer with Plug, Chain and Mounting Kit
"Beta" Flush Arm Washer
50 mm Diameter UPVC Pipe, 6m Long
Drain Cleaning Acid (1liter)
Silicone Sealer Clear Big Tube
110 mm Diameter UPVC Pipe, 6m Long
110 mm Diameter UPVC 90 Degree Bend
110 mm Diameter UPVC 90 Degree Inspection Bend

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110 mm Diameter UPVC 90 Degree Bend With 50 Mm Inlet
110 mm Diameter UPVC Straight Coupler
110 mm Diameter UPVC Straight Coupler With 50 Mm Inlet
110 mm Diameter UPVC Straight Coupler with Two 50 Mm Inlets
110 mm Diameter UPVC Y Junction
110 mm Diameter UPVC Inspection Eye
110 mm Diameter Inspection Bend with Vent 50
110 mm to 50 Mm Diameter Reducer UPVC
"Courier" Ceramic White Bathroom Basin with Pedestal No Holes
32mm Diameter Chromium Plated Basin Waste Fitting
38mm Diameter Sink Waste Fitting
75 mm Shower Waste with CP Shower Grating and RB Body
G 1 1/2 F1 Shower P Trap with Shallow Seal and CP Grating
110 mm Diameter UPVC 45 Degree Bend
200 L Kwikot Geyser
150 L Kwikot Geyser
50 L Kwikot Geyser
2,5 Litre Hydro Boil Geyser
5 Litre Hydro Boil Geyser
7,5 Litre Hydro Boil Geyser
10 Litre Hydro Boil Geyser
15 Litre Hydro Boil Geyser
25 Litre Hydro Boil Geyser
15 mm Diameter Chromium Plated "Cobra" Swivel Sink Mixer
15 mm Diameter "Cobra" Chromium Plated Sink Tap
15 mm Diameter Chromium Plated Flexible Connector, 375 Mm Long
900 mm Stainless Steel Single Sink
1200 Stainless Steel Double Sink
Stainless Steel Prep Bowl
Plumbing Solder Without Flux 500 Gram

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Plumbing Flux
Poly Corp Pipe 22mm X 100meter Roll
Poly Corp Pipe 15mm X100 Meter Roll
20mm Class 6 PVC Pipe 100 Meter Roll
20mm 90 Degree PVC Bend
20mm Straight Coupler PVC
20mm "Tee" Piece PVC
20mm Heavy Duty Water Clamps
Toilet Water Isolating Ball Valve ½"
Quick Flow Regulating Valve
20mm PVC Class 6 Pipe 100meter Roll
Duel Top Flash Inner for Cistern
Hand Basin Cobra Mixer (Tap Hot and Cold Water)
True Fix Ceramic Basin Screws
H/D Drain Rod 2m Industrial Male and Female Ends

## 2. Specifications

Title	Date or revision	Tick if publicly available
<b>General Specifications:</b>		
<b>32-727: Safety, Health, Environmental And Quality Policy.</b>		
<b>RSR0001: Safety, Health And Environment Requirements For Contractors At Kriel P/S</b>		
<b>ESP 32-345: Vehicle Safety Specifications</b>		
<b>QM-58: Supplier Contract Quality Requirements Specification</b>		
<b>Technical specifications:</b>		
SANS 791 Unplasticized poly(vinyl chloride) (PVC-U) sewer and drain pipes and pipe fittings		
SANS 1732: Grey water Reuse Systems - General Requirements		x
SANS 3088 Water Efficiency in buildings		

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SANS 10254 The installation, maintenance, replacement and repair of fixed electric storage water heating systems, which regulates water heater installations		
SANS 10252 <i>Water Supply and Drainage for Buildings – Part 1 Water Supply Installations for Buildings</i> This standard also refers to other relevant standards that products and materials should comply to		
SANS 10254 <i>The Installation, Maintenance, Replacement and Repair of Fixed Electric Storage Water Heating Systems</i> This standard regulates geysers and associated plumbing components		
SABS 0400 <i>Code of Practice for the Application of the National Building Regulations</i> The National Building Regulations set requirements for the technical performance for all buildings constructed to ensure the health and safety of occupants. It specifies what persons may do plumbing work, but does not specify much regarding water supply plumbing components		

### 3. Constraints on how the *Supplier* Provides the Goods

#### Constraints at the delivery place

The *Supplier* is to provide the *goods* and *services* both at the delivery place using a roadworthy vehicle and compliance to road traffic rules on and offsite. The supplier complies with delivery timelines as stated in 6.0 of this document.

#### Speed limit

All vehicles are driven with due consideration for personnel and property. A maximum speed limit of 40 kilometres per hour and 15 kilometres per hour within the Units is adhered to on the premises at all times.

#### Medical Facilities

- The Contractor provides a First Aid service to his employees and subcontractor. In the case where these prove to be inadequate, like in the event of a serious injury, the Employer's Medical Centre and facilities are available.
- Outside the Employer's office hours, the Employer's First Aid Services are only available for serious injuries and life threatening situations.
- The Employer is entitled, however, to recover the costs incurred, in the use of the above Employer's facilities, from the Contractor.

#### Environmental constraints and management

It should always be noted that Kriel Power Station is ISO14001 certified and therefore promotes Integrated Environmental Management (IEM) philosophy which aims to achieve a desirable balance between conservation and development. All activities taking place within Kriel Power Station must consider section 28 of the National Environmental Management Act (107 of 1998) which makes provision for the duty of care. Informative approach. The contractor's team must commit to review and to continually improve environmental management, with the objective of improving overall environmental performance.

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## Quality

The Contractor shall be required to read and fully understand the contents of the Supplier Contract Quality Requirement Specification (QM58) that was made available on the Eskom Tender Bulletin at the time of invitation to tender. Ensure that a copy is to be kept in possession or on premises.

The Supplier Contract Quality Requirement Specification (QM58) shall remain applicable in the event of the contract being extended or modified for reasons permitted.

By signature and acceptance of this contract the Contractor acknowledges and agrees to comply with and adhere to Eskom's policies and procedures (current and/or latest revisions) including the Supplier Contract Quality Requirement Specification (QM58).

The Supplier submits the quality organogram for his/her company and quality control plan. The plant should put in details of how he/she is going to ensure that quality products are delivered as per the scope. ISO 9001:2015 shall be followed and adopted in ensuring that quality goods are rendered.

### 3.1 Subcontracting

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*.

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

### 3.2 Use of standard forms

All NEC standard forms shall be used by *Supplier* and *Purchaser* in the administration of this contract (e.g. early warning and compensation event notifications).

### 3.3 Invoicing and payment

In terms of core clause 50 the *Supplier* assesses the amount due and applies to the *Purchaser* for payment. The *Supplier* applies for payment with a tax invoice addressed to the *Purchaser* as follows:

---

The *Supplier* includes the following information on each tax invoice:

Name and address of the *Supplier*:

1. The contract number and title,
2. *Supplier's* VAT registration number,
3. The *Purchaser's* VAT registration number which is \_4740101508,
4. The total of The Price for each lump sum item in the Price Schedule or Batch Order which the *Supplier* has completed,

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- 5 Where a quantity is stated for an item in the Price Schedule or Batch Order, an amount calculated by multiplying the quantity which the *Supplier* has completed by the rate,
- 6 Other amounts to be paid to the *Supplier*;
- 7 Less amounts to be paid by or retained from the *Supplier*;
8. The invoiced amount - excluding VAT, the VAT and including VAT,

(add others as required)

Task order shall be given to Supplier indicating the goods required, order shall be created following the task order Supplier shall action and the invoice accordingly after goods has been delivered and assessed to be correct

### 3.4 Records of Defined Cost

Not applicable

### 3.5 BBBEE and preferencing scheme

The Supplier shall maintain the BBBEE level which was specified throughout the contract period or improve his level status but dropping points shall not be tolerated The requirements in the **conditions of contract NEC3 Supply Short Contract Z2** shall apply.

### 3.6 Cataloguing requirements by the *Supplier*

Not applicable, cataloguing will only be done by Employer where there is none found on Eskom system, prior to tendering

## 4. Requirements for the programme

The supplier provides the programme with timelines of how long it will take to deliver each goods as per the scope in the beginning after contract is signed Each time the purchase order is issued, the supplier is to submit a short programme of items with timelines, which will be evaluated against the original programme for comparison Adjustments will be made as required and agreed upon with the Supply Manager

## 5. Services and other things provided by the *Purchaser*

Item	Date by which it will be provided
Forklift for offloading	As required
Demarcated area for offloading	As required

## 6. Supply requirements

Constraints on how the *Supplier* is to provide the *goods* and *services* both at the delivery place are use of roadworthy vehicle and compliance to road traffic rules on and offsite The supplier complies with delivery timelines as stated in this document The supplier provides adequate manpower to offload the delivered goods onsite and assistance will be provided with heavy goods offloading that might require mobile lifting

### Delivery Requirements

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- 1 Contractor to confirm delivery lead time of items upon receipt of order
- 2 All deliveries must be delivered to Kriel Power Station Main Stores
- 3 Purchase orders will be issued to the Contractor with the required items and quantities
- 4 Deliveries will be made during the week within the following hours:  
Monday, Tuesday, Wednesday, Thursday 07h00 until 15h45  
Friday 07h00 until 11h00  
Road conditions and security gate access to be taken into consideration for delivery to the main stores within these hours
- 5 Supplier to be prepared to provide goods within an acceptable delivery period when urgently required
- 6 All deliveries shall be accompanied by a delivery note which will be verified and QC signed-off by the end user as tasked by the Supply Manager

### Marking the goods

The goods are to be clearly marked of what they are so that they can be separately packed upon arrival onsite. Goods are to be packaged with care such that damage during transportation to site is eliminated for fragile items and also handling onsite is done with ease. The supplier shall ensure that goods are supplied properly packed using e.g. heavy duty plastic, packed on pellets and boxes where applicable for proper care.

### 7. Acceptance

This document has been seen and accepted by:

Name	Designation
S Ngwenya	Auxiliary Maintenance Manager
J Bennett	Civil Engineer Auxiliary Engineering

### 8. Revisions

Date	Rev.	Compiler	Remarks
June 2022	1	V Mnguni	First issued document
August 2022	2	V Mnguni	Update the scope

### 9. Development Team

The following people were involved in the development of this document

- Mapula Sethosa
- Enipha Modise
- Vela Mnguni

### 10. Acknowledgements

All the assistance received from all internal and external stakeholders

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