

	Report	Engineering
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Title: **SUPPLY AND DELIVERY OF COUPLINGS ON AN "AS AND WHEN REQUIRED" BASIS FOR A PERIOD OF FIVE (5) YEARS AT KRIEL POWER STATION. - scope of work** Document Identifier: **559-197899090**
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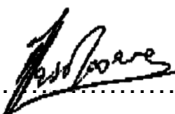
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1. Introduction

Kriel Stores department is going out on open tender for a supply contract of mill couplings, rubber coupling, spring bibby coupling, coupling bolts and coupling grease on an as when required basis. The contract will be for 5 years.

The scope of work is defined in this document.

2. Supporting Clauses

2.1 Scope

The scope of this document defines the scope of work that the supply contractor will have to execute at his works.

2.1.1 Purpose

The purpose of the document is to define the scope of work in line with the service information on the NEC3 Supply contract.

2.1.2 Applicability

This document is applicable to Kriel Power Station.

2.1.3 Effective date

The document will be 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

2.2.2 Informative

[2] 32-1033: Eskom Procurement and Supply Chain Management Policy

[3] 32-1034: Eskom Procurement and Supply Management Procedure during the tender process

2.3 Definitions

None

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2.4 Abbreviations

Abbreviation	Explanation
AIA	Approved Inspection Authority
GO	General Overhaul
MGO	Mini General Overhaul
N/A	Not Applicable
OBL	Outside battery limits
WPS	Welding procedure specification

2.5 Roles and Responsibilities

2.6 Process for Monitoring

N/A

2.7 Related/Supporting Documents

N/A

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3. Supply and delivery of mill couplings scope of work

3.1 Executive overview

The contract covers the manufacture/supply of 10.8E and 12E mill couplings, rubber coupling, spring bibby coupling, coupling bolts and coupling grease on an as when required basis for a period of 5 years.

3.2 Employer's requirements for the service

3.2.1 General

The supplier is responsible for the supply and delivery of 10.8E and 12E mill couplings, rubber coupling, spring bibby coupling, coupling bolts and coupling grease as stock items on an "as and when required" basis. The specified items must be made to the specified Eskom drawings (Modifications acceptable subject to Eskom approval) and applicable international standards. The following must be adhered to:

- The data pack detailing all quality checks must be submitted electronically to the end-user and in hard copy when the delivery is made.
- The contractor must work to original manufacturing specifications, **modification on original design will be considered and will be subjected to Eskom engineering approval**. Design modifications must clearly state the added benefits as opposed to the previous design.
- Approved quality control plans must be made available for inspection by the employer.
- The contractor must commit to a reasonable lead-time at the start of the contract. The delivery date of each order must be communicated with the contract manager and end-user.
- The delivery of the couplings will only be considered as complete if and when all the associated documentation is available at Kriel Power Station. All deliveries must be made to Kriel Power Station Main Stores and will be subject to thorough inspection before acceptance. The end-user must be notified two days before any delivery to arrange the offloading of the material.

Deliveries must be made during the week within the following hours:

Monday, Tuesday, Wednesday, Thursday: 07h00 until 14h30

Friday: 07h00 until 10h00

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3.2.2 Scope of work

No	Short description	Material Description (PO information)	Stock no	Quantity
1.	INSERT FLEX CPLG:TIRE;RUBBER	INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 64 X OD 125 X THK 48 MM; MATERIAL: RUBBER; SUPPL P/N: F50; FOR FENAFLEX; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	20509	100
2	INSERT FLEX CPLG:TIRE;RUBBER	INSERT, FLEXIBLE COUPLING: TYPE: TIRE; MATERIAL: RUBBER; SUPPL P/N: F220; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	45201	100
3	COUPLING SHFT FLEX:GEAR;68 MM;NYLON	COUPLING, SHAFT FLEXIBLE: TYPE: GEAR; BORE DIAMETER: 68 MM; MATERIAL: NYLON; SUPPL P/N: UC-DC-42-S; SIZE: OD 92MM X LG 52MM, FOR AIR HEATER LUB OIL PUMP; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	29642	200
4	INSERT-FLEX CPLG:TIRE;RUBBER	INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 64 X OD 125 X THK 48 MM; MATERIAL: RUBBER; SUPPL P/N: F50; FOR FENAFLEX	20509	200
5	INSERT-FLEX CPLG:TIRE;RUBBER	INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: F80; MATERIAL: RUBBER	18139	100
6	JOINT EXPSN:CLAMP;FLEXGEN 2000	JOINT, EXPANSION: CONNECTION: CLAMP; MATERIAL: FLEXGEN 2000; APPLICATION: COMPENSATOR; COATED GLASS FABRIC LAMINATED WITH PTFE; NO EQUIVALENT WILL BE ACCEPTED; BURGMANN BRAND ONLY; SUPPLIER NOTE: THE ITEM MUST BE SEALED IN A PLASTIC BAG AND CLEARLY MARKED; SIZE 310MM WD X 12M LG	160512	200

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7	GRID CPLG:CLOSE COUPLED;1180 MM;ALUMINIUM COVER	GRID, COUPLING: COUPLING TYPE: CLOSE COUPLED; COUPLING SIZE: 1180 MM; MATERIAL: ALUMINIUM; T10 HORIZONTAL SPLIT COVERS BIBBY COUPLING, SIZE 1180T SUPPLIED WITH SPRING GRID, STL; TORQUE RATING 103 000 NM;1100 RPM: MIN 153MM & MAX 300MM: DIMENSIONS AS PER ATTACHED MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	771864	8
8	GRID CPLG:CLOSE COUPLED;1180 MM;STL HUBS	GRID, COUPLING: COUPLING TYPE: CLOSE COUPLED; COUPLING SIZE: 1180 MM; MATERIAL: STL; T10, GRID COUPLING HUBS 1 SET (TWO HALVES) STL, DELIVERED WITH A PILOT BORE, SIZE 1180 T, WITH DIMENSIONS AS PER ATTACHED MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	771865	4
9		COUPLING, SHAFT FLEXIBLE: BORE DIAMETER: 26 MM; MATERIAL: ALUMINIUM; TYPE ELASTOMERIC, SIZE 70 PILOT BORE, FOR CW BOOSTER PUMP A AND B; LG: 55MM; OD: 205MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0045807	15
		INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 100 X OD 162 X THK 30 MM; MATERIAL: RUBBER; SUPPL P/N: 1040WA21; 40WA TORUS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0018144	12
		COUPLING, SHAFT HALF: TYPE: RIGID DRIVE; OUTSIDE DIAMETER: 75 MM; LENGTH: 35 MM; MATERIAL: STL; SUPPL P/N: 40WA; UNBORED; VENDORS ARE RESPONSIBLE FOR	0048015	20

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		ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).		
		FLANGE: TYPE: FLEXIBLE BUSHED; DIMENSIONS: ID 58 MM; MATERIAL: STL; REFERENCE NO: F70H; FENNAFLEX, COMPLETE, ITEM MUST BE ORIGINAL PACKED	0048211	25
		BUSH, TAPER LOCK: BORE DIAMETER: 42 MM; SERIES: 1610; MATERIAL: STL; SUPPLIER NOTE: THE ITEM MUST BE ORIGINAL PROTECTIVE PACKED AND MARKED	0048118	18
		BUSH, TAPER LOCK: BORE DIAMETER: 24 MM; SERIES: 1610; MATERIAL: STL; SUPPLIER NOTE: THE ITEM MUST BE ORIGINAL PROTECTIVE PACKED AND MARKED	0048210	30
		INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 110 X OD 180 X THK 75 MM; MATERIAL: RUBBER; SUPPL P/N: F70; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0018138	30
		ELEMENT: DIMENSIONS: ID 110 X OD 175 X THK 30 MM; MATERIAL: RUBBER; TYPE: FLEXIBLE COUPLING; REFERENCE NO: 50WA11; FLEXIBLE; FOR USE ON TORUS COUPLING	0025344	26
		INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: F80; MATERIAL: RUBBER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0018139	32

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		COUPLING, SHAFT FLEXIBLE: MATERIAL: RUBBER/STL; SUPPL P/N: F80; UNBORED; COMPRISING OF, 1 HUB, 2 CLAMP RINGS, 1 FLEX ELEMENT, 1 SET FASTENERS, NOTE: ITEM MUST BE PROPER MARKED AND ORIGINAL PACKED; LG: 43MM; OD: 165MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0025365	16
		INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 150 X OD 230 X THK 85 MM; MATERIAL: RUBBER; SUPPL P/N: F90; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0018145	36
		INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 100 X OD 162 X THK 30 MM; MATERIAL: RUBBER; SUPPL P/N: 1040WA21; 40WA TORUS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0018144	16
		COUPLING, SHAFT HALF: TYPE: FLEXIBLE DRIVE; BORE: 32 MM; OUTSIDE DIAMETER: 130 MM; LENGTH: 237.9 MM; MATERIAL: CARBON STL; GRADE: EN8; BORE AND KEY: H7; POWER STREAM A-SERIES; CONNECTION SIZE: 55MM; DBSE: 140MM; PHOSPHATE TREATED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0644364	36

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		COUPLING, SHAFT FLEXIBLE: MATERIAL: STL; SUPPL P/N: E82-540404300; REFERENCE NO: E67-10-603647060; COMPLETE WITH N-MEX FLEX RING; FOR DRYDUST PLANT; LG: 80MM; OD: 80MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	0025422	24
		SPIDER, COUPLING: COUPLING TYPE: FLEXIBLE; MATERIAL: RUBBER; THICKNESS: 12 MM; REFERENCE NO: L090-095; TYPE: WEB, FOR COUPLING; SIZE: 54 MM DIA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0047824	40
		COUPLING, SHAFT HALF: TYPE: RIGID; BORE: 25 MM; OUTSIDE DIAMETER: 54 MM; LENGTH: 55 MM; MATERIAL: AL/STL; REFERENCE NO: L095; TYPE: SPIDER WEB; BORED AND KEYED, FOR 7/8 IN SHAFT, COMPLETE WITH GRUB SCREWS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0047825	16
		COUPLING, SHAFT FLEXIBLE: MATERIAL: STL; SUPPL P/N: E82-540404300; REFERENCE NO: E67-10-603647060; COMPLETE WITH N-MEX FLEX RING; FOR DRYDUST PLANT; LG: 80MM; OD: 80MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0025422	16

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		COUPLING, SHAFT: TYPE: CONVEYOR; BORE: 80 MM; OUTSIDE DIAMETER: 480 MM; LENGTH: 300 MM; MATERIAL: ALUMINIUM; FIG NO: 422	0026411	24
		SCREW, SET: NOMINAL THREAD DIAMETER: 1/4 IN; THREAD: 20BSW; THREAD LENGTH: 3/4 IN; HEAD STYLE: HEX; MATERIAL: MS GR 4.5; POINT STYLE: FLAT; SPECIFICATION: SABS1083-1965 TABLE 1	0080520	500
		HUB: TYPE: JAW CLUTCH COUPLING MALE; MATERIAL: STL; FOR USE ON ELECTRIC FEED PUMP BETWEEN MOTOR AND BOOSTER PUMP	26441	19
		HUB: TYPE: JAW CLUTCH COUPLING FEMALE; MATERIAL: STL; FOR USE ON ELECTRIC FEED PUMP BETWEEN MOTOR AND BOOSTER PUMP	26442	20
		COUPLING, SHAFT HALF: TYPE: DRIVEN; OUTSIDE DIAMETER: 190 MM; LENGTH: 150 MM; MATERIAL: STL; MODEL NO: ZLS-5	42560	7
		HUB: TYPE: MAAG GEAR COUPLING; DIMENSIONS: ID 40 X OD (114 X 95) X LG 87 MM; MATERIAL: STL; OEM P/N: TPP104-695-000-507; MODEL NO: ZLS-2	47801	5
		COUPLING, SHAFT: TYPE: TURBOFLEX; LENGTH: 960 MM; MATERIAL: STL; SUPPL P/N: D3883; REFERENCE NO: HBS 5300-8; BETWEEN STEAM FEED PUMP AND BOILER FEED PUMP TURBINE	47992	5
		KIT, PUMP REPAIR: TYPE: CONTROL OIL; COMPRISING: COUPLING PIN; SUPPL P/N: 866; DRAWING NO: 511274701 REV 1; MODEL NO: WKVM 100-4; COMPLETE WITH RUBBER, (10 PER SET), TO MAN DRAWING AND PARTS LIST 5147274702-04 OF MAN MANUAL VOLUME 16	93423	20

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		FLANGE: TYPE: FLEXIBLE BUSHED; MATERIAL: CI; REFERENCE NO: F50H; COUPLING, FENAFLEX	60504	24
		BUSH, TAPER LOCK: BORE DIAMETER: 32 MM; SERIES: 1210; MATERIAL: STL; SUPPLIER NOTE: THE ITEM MUST BE ORIGINAL PROTECTIVE PACKED AND MARKED	48117	24

3.2.3 Standards and specifications

3.2.3.1 Quality Control Plan

A Quality control plan must be developed and submitted to Eskom for approval. The plan has to include quality control on material for new components, quality control of components not manufactured by the contractor where applicable.

Intervention points on critical manufacturing and assembling steps must be approved before the work starts. Involvement of a third-party inspector has to be indicated where applicable.

3.2.3.1.1 Intervention points

Intervention points will be approved for each individual unit and is to be detailed in the applicable Task Order.

The employer's representative may from time to time visit the contractor's works to inspect and monitor progress without prior notice.

3.2.3.1.2 Material certificates

The quality control plan must state the controls to confirm the quality of all materials used, NDT test required during fabrication and assembly and heat treatment requirements. The physical property test certificate, chemical composition certificates, NDT certificates and heat treatment certificates must be in the data pack (where applicable).

3.2.4 THE PROGRAMME

The starting date and completion date as per the relevant Task Order will be applicable for each unit.

A program must be submitted for each task order with the activities broken down to show how the end date will be achieved.

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4. Acceptance

This document has been seen and accepted by:

Name	Designation

5. Revisions

Date	Rev.	Compiler	Remarks
April 2026	1		Removal of some components that are already covered in other contracts
July 2025	0		Creation of the document

6. Development Team

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

7. Acknowledgements

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