



Scope of Work

Matimba Power Station

TENDER NUMBER: E3259GXLPMAT

BID NAME: SUPPLY AND DELIVERY OF S1 GEARBOX INTERNALS

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1 Introduction

1.1 Background of Matimba Power Station

Matimba Power Station is a coal fired power station located in Lephalale, Limpopo Province, South Africa. The station consists of six 665MW units which supplies a total of 3990MW to the nation grid. Matimba receives fuel coal from the Exxaro Grootegeluk open cast mine with about 14.6 million tons of coal a year through S1 conveyor system.

2 Supporting Clauses

2.1 Purpose

The purpose of this document is to outline the scope of work for Supply and delivery of S1 gearbox internals at Matimba Power station and to describe the technical criteria to which the material is to be supplied.

2.2 Scope

This document covers the minimum technical and non-technical requirements supply and delivery of s1 gearbox internals

2.2.1 Applicability

This document is applicable to Mechanical workshop Function at Matimba Power Station.

2.3 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following Paragraphs.

2.3.1 Normative

- [1] Occupational Health and Safety Act, 85 of 1993
- [2] Supplier Contract Quality Requirements Specification
- [3] SABS Quality Standards
- [5] Quality Programme ISO9000/1/2
- [6] 240-46554063: Safety Health Environmental and Quality Policy.

2.3.2 Informative

- [1] Eskom Integrated Risk Management Procedure, 32-391.
- [2] Plant Safety Regulations
- [11] National Key Point Act no 102 of 1980

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2.4 Definitions

Definition	Description
Contractor	Service provider contracted for supply specific service to Eskom Matimba Power Station.
Employer	Eskom or Eskom Matimba power station representative appointed in writing.

2.5 Abbreviations

Abbreviation	Description
EA	Each
KPI	Key performance indicators
L	Litre
N/A	Not Applicable
NCR	Non-Conformance Report
OHS	Occupational Health and Safety
SOW	Scope of work
PPE	Personal protective equipment
SAP	System, application, products
SHE	Safety, health and environment
UMC	Unit of Measure

2.5.1 Contractor

- 1.1.1.1. Provide consistent and supply quality Material.
- 1.1.1.2. The contractor to adhere to all Employer's health and safety requirements and procedures on site.
- 1.1.1.3. The contractor shall comply with all relevant SABS standards, OHS Act 1993 and also with the Employer's standards as specified from time to time.

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2.6 Related/Supporting Documents

2.6.1 List of procedures applicable for this service

Title	Document Number	Revision	Functional Area
COAL STORAGE AND UNLOADING, S1 COAL CONVEYOR GEARBOX OVERHAUL	PWM/EACMG/M/001	0	MAINTENANCE

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3 Scope of Work

3.1 Scope overview

Item nr	Material number	Material Description and Texts	UMC	QTY
00010	0210993	GEAR, HELICAL: TEETH: 66; BORE: 170 MM; DIAMETER: 548.38 MM; FACE WIDTH: 130 MM; MATERIAL: STL GR EN36B; SUPPL P/N: G27-0866001; 3RD STAGE, FOR HANSEN RDL31AN GEARBOX, S1 CONVEYOR COAL PLANT, RATIO 21,838:1, SPEED 1490/68, 533 KW; PITCH DIAMETER: 548.38MM; MATERIAL SPECIFICATION CERTIFICATE; HEAT TREATMENT CERTIFICATE; GRAPH CERTIFICATE AND QUALITY INSPECTION CERTIFICATE TO BE INCLUDED ON DELIVERY	EA	3
00020	0210900	PINION: TYPE: GEARBOX; DIMENSIONS: LG 685 MM; MATERIAL: STL GR EN36B; NUMBER OF TEETH: 17; SUPPL P/N: L27-121A101; 3RD STAGE; FOR HANSEN RDL31AN GEARBOX; S1 CONVEYOR COAL PLANT; RATIO 21.838:1; SPEED 1490/68; 533 KW; MATERIAL SPECIFICATION CERTIFICATE; HEAT TREATMENT CERTIFICATE; GRAPH CERTIFICATE AND QUALITY INSPECTION CERTIFICATE TO BE INCLUDED ON DELIVERY	EA	3
00030	0210899	PINION: TYPE: GEARBOX; DIMENSIONS: LG 610 MM; MATERIAL: STL GR EN36B; NUMBER OF TEETH: 15; SUPPL P/N: L27-0815A101; 2ND STAGE; FOR HANSEN RDL31AN GEARBOX; S1 CONVEYOR COAL PLANT; RATIO 21.838:1; SPEED 1490/68; 533 KW; MATERIAL SPECIFICATION CERTIFICATE; HEAT TREATMENT CERTIFICATE; GRAPH CERTIFICATE AND QUALITY INSPECTION CERTIFICATE TO BE INCLUDED ON DELIVERY	EA	3
00040	0210992	GEAR, HELICAL: TEETH: 34; BORE: 110 MM; DIAMETER: OD 265 MM; FACE WIDTH: 85 MM; MATERIAL: STL GR EN36B; KEY SIZE DESIGNATION: WD 28 MM; SPECIFICATION: D27-0734001; SUPPL P/N: D27-0734001; 2ND STAGE, FOR HANSEN RDL31AN GEARBOX, S1 CONVEYOR COAL PLANT, RATIO 21,838:1, SPEED 1490/68, 533 KW; PITCH DIAMETER: 245.56MM; MATERIAL SPECIFICATION CERTIFICATE; HEAT TREATMENT CERTIFICATE; GRAPH CERTIFICATE AND QUALITY INSPECTION CERTIFICATE TO BE INCLUDED ON DELIVERY	EA	3
00050	0210986	GEAR, HELICAL: TEETH: 27; BORE: 100 MM; DIAMETER: OD 217 MM; FACE WIDTH: 90 MM; MATERIAL: STL GR EN36B; KEY SIZE DESIGNATION: WD 28 MM; SUPPL P/N: D27-0727001; INPUT, FOR	EA	3

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		HANSEN RDL31AN GEARBOX, S1 CONVEYOR COAL PLANT, RATIO 21,838:1, SPEED 1490/68, 533 KW; PITCH DIAMETER: 195.52MM; MATERIAL SPECIFICATION CERTIFICATE; HEAT TREATMENT CERTIFICATE; GRAPH CERTIFICATE AND QUALITY INSPECTION CERTIFICATE TO BE INCLUDED ON DELIVERY		
00060	0210897	PINION: TYPE: INPUT; DIMENSIONS: LG 1.5 M; MATERIAL: STL GR EN19; NUMBER OF TEETH: 19; SUPPL P/N: L262070201; MATERIAL SPECIFICATION CERTIFICATE; HEAT TREATMENT CERTIFICATE; GRAPH CERTIFICATE AND QUALITY CONTROL CERTIFICATE TO BE INCLUDED ON DELIVERY; FOR HANSEN RDL31AN GEARBOX; S1 CONVEYOR COAL PLANT; RATIO 21.838:1; SPEED 1490/68; 533 KW; MATERIAL SPECIFICATION CERTIFICATE; HEAT TREATMENT CERTIFICATE; GRAPH CERTIFICATE AND QUALITY INSPECTION CERTIFICATE TO BE INCLUDED ON DELIVERY	EA	3
	0752010	SHAFT: TYPE: PINION 17 TEETH; LENGTH: 540 MM; MATERIAL: EN36; APPLICATION: REDUCER GEARBOX; END STYLE 1: 17 TEETH INTERMEDIATE; END 1 SIZE: 70 MM; END 2 SIZE: 65 MM; REFERENCE NO: E27-0417-261	EA	2
	0771562	GEAR: TYPE: PINION BEVEL SET; TEETH: 12 TO 48; INSIDE DIAMETER: 70 MM; OUTSIDE DIAMETER: 50 MM; WIDTH: 465 MM; MATERIAL: STEEL EN36; SPECIFICATION: BUCKET ELEVATOR; REFERENCE NO: A29-4048-B001	EA	2
	210902	PINION: TYPE: AUXILIARY COOLING; DIMENSIONS: LG 318 MM; MATERIAL: STL GR EN36B; NUMBER OF TEETH: 16; SUPPL P/N: D27-0516A101; DRAWING NO: 502-346-03-03 REV 1; FOR HANSEN RND24BNN GEARBOX AUXILLARY COOLING RATIO 13.708:1 SPEED 1480-107.9; 75 KW THE FOLLOWING DOCUMENTS MUST BE PROVIDED WITH THE MATERIALM SPECIFICATION CERTIFICATE HEAT TREATMENT GRAPH AND QUALITY INSPECTION CERTIFICATE THE MATERIAL CAN ONLY BE ACCEPTED IF ALL REQUIREMENTS ARE MET AND CERTIFICATES PROVIDED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE	EA	2
	210989	GEAR, BEVEL: TYPE: HELICAL; TEETH: 47; 15; OUTSIDE DIAMETER: 280 X 110 MM; BORE: 80 MM; FACE WIDTH: 70 MM; MATERIAL: STL GR EN36B; SUPPL P/N: B29-0320B152; DRAWING NO: B29-3247B001 REV 1; COMPLETE SET, 530 LG, FOR HANSEN RND24BNN GEARBOX, AUXILLARY COOLING, RATION 13,708:1, SPEED 1480-107, 9.75 KW; DOCUMENTS TO BE PROVIDED WITH MATERIAL: MATERIAL CERTIFICATE; HEAT TREATMENT ; GRAPH & QUALITY INSPECTION CERTIFICATE	EA	2

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	210996	GEAR, HELICAL: TEETH: 70; BORE: 110 MM; DIAMETER: 375.57 MM; FACE WIDTH: 85 MM; MATERIAL: STL GR EN36B; SUPPL P/N: D27-0570-001; DRAWING NO: 502-346-01-03 REV 1; OUTPUT, FOR HANSEN RND24BNN GEARBOX, AUXILLARY COOLING, RATIO 13,708:1, SPEED 1480-107,9, 75 KW; PITCH DIAMETER: 364.58MM; THE FOLLOWING DOCUMENTS MUST BE PROVIDED WITH THE MATERIAL: MATERIAL SPECIFICATION, HEAT TREATMENT; GRAPH & QUALITY INSPECTION CERTIFICATE	EA	2
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3.2 Safety precautions

The contractor shall follow all Eskom's safety requirements including all lifesaving rules and regulations required to perform the work. The contractor shall make sure he takes all the necessary precautions inside Eskom premises.

3.3 Deficiencies and modifications

Material NCR will be issued to the contractor where there are deficiencies and the contractor shall rectify within the agreed period.

3.4 Quality control standards

The contract shall ensure that the delivered material meet the quality requirements provided by the employer.

3.5 Eskom Policies

The contractor's employees shall comply with Eskom's policies and site regulations, including but not limited to the use of cell phone while driving, work/activities in restricted areas, adherence to Eskom's lifesaving rules, smoking policy, zero tolerance on alcohol usage, etc. these requirements will be discussed in details during induction training process.

4 Technical evaluation

Technical evaluation will be based on the technical criteria and scoring rating developed by Maintenance and Verified by Engineering.

- Technical Evaluation to be performed by Engineering and Maintenance personnel.
- Technical evaluation report should be signed by Maintenance Manager

4.1 Commercial evaluation

- a) Financial Evaluation to be carried out by Finance personnel.
- b) Commercial documents should be signed by Commercial Manager.

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