Eskom	**Scope of work**	**Kusile Power Station**

Title: **Kusile Power Station Supply and Delivery of Gearboxes Scope of work**

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Content **Page**

Tables

1. Introduction

Kusile Power Station management decided to establish a long-term agreement for the supply of some of the power Station's strategic, critical, and operational plant spares. For the plant to operate effectively and efficiently, maintenance must be performed at intervals specified as per plant maintenance strategies. Correct plant spares are required to ensure maintenance is executed as per the maintenance strategy requirements and thus must be always available. The identification of which specific components to be kept as spares as well as the quantities has been done according to the information available at the time of the compilation of this document.

The required information for spares holding has not been adequately detailed enough to enable the full cataloguing of the identified spares into the SAP computer data base. This creates challenges to the current and future procurement processes and may lead to costly delivery of wrongly specified equipment. The works information processes outlined in this document are intended to eliminate or minimize the risk of such occurrences.

2. Supporting Clauses

2.1 Scope

The scope of work (SOW) specifies the required spares to be supplied by the Supplier on an as and when required basis and conditions for acceptance. The scope included here does not substitute procurement procedures that will be followed during the procurement process.

2.1.1 Purpose

The purpose of this document is to provide scope of work and technical information for the purchase of Gearbox Spares and ensure that all maintenance spares, which Kusile Power Station is procuring, are correct.

2.1.2 Applicability

This document is applicable to Kusile Power Station

2.1.3 Effective date

This document will be effective from the date of its 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] 32-727 SHEQ Policy

[3] 36-681 Generation Plant Safety Regulations

[4] 240-83797737 In- Service monitoring of Lubricating oils and Hydraulic fluids

[5] 240-84513751: Material Specification and Certification Guideline for Power Generation Plant

[6] 240-86546783: Procurement Standard for Material Certification Requirements Applicable to Metallic Products Used on Low and Medium Pressure Applications

[7] 240-54820279: Receive Materials

[8] BS EN 10204 (2004) - Metallic products -Types of Inspection Documents

[9] 240-106024999_Kusile Power Station Feedwater and HP Heating Maintenance Spares Strategy

2.2.2 Informative

N/A

2.3 Definitions

Definition	Explanation
Contractor	Service provider contracted to provide a specific spares & documentation to Kusile Power Station. Referred to as the Supplier on this document.
Employer	Kusile Power Station
Disclosure Classification	Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 Abbreviations

Abbreviation	Explanation
SOW	Scope Of Work
OEM	Original Equipment Manufacturer
KPI	Key Performance Indicator
ISO	International Organisation for Standardisation
OHS	Occupational Health & Safety

2.5 Roles and Responsibilities

2.5.1 Contractor

1. To Supply and Deliver Gearboxes' for Kusile Power Station according to the specifications and technical requirements on this document.
2. Contractor shall submit all documentation as requested by the Employer

2.5.2 Employer

1. Compiles and submit scope of work with technical specifications.
2. Performs Quality Control of all spares on delivery at the Employer premises.

2.6 Process for Monitoring

This document will be a once-off document to state the scope of work to supply and delivery of various types of Gearboxes for 5 years duration at Kusile Power Station across the different departments.

2.7 Related/Supporting Documents

N/A

3. Scope of work

3.1 Gearbox Specification

Table 1: Technical Specification for Gearbox Spares

No	Material Number	Description	Area-Location	Quantity
1	0649044	GEARBOX: APPLICATION: ASH PLANT; SUPPL P/N: G86-H150B011; LOOPRING; 4072QR10838; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4
2	0649043	GEARBOX: APPLICATION: ASH PLANT; SUPPL P/N: X65-0311514012; AFDICHTRING V BASL 115X140X12; 4072QR10838; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4

3	0710056	GEARBOX: TYPE: 3 STG; RATIO: 191.02:1; SPEED: 1455 RPM; POWER: 5.5 KW; APPLICATION: ASH RECLAIMER MACHINE; SPECIFICATION: KZ148-LA132SP4E-L80GHA; BEVEL HELICON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4
4	0648212	GEARBOX: TYPE: BALANCE MACHINE; RATIO: 48:1; SPEED: 1392/29 RPM; POWER: 45 KW; SHAFT SIZE: 45K6 MM; APPLICATION: ASH CONDITIONER; ROTATION DIRECTION: CLOCK/ANTI CLOCKWISE; SUPPL P/N: 14226566050/1; SPECIFICATION: HD0-1103LPL1G225; REFERENCE NO: 2FB6301AH10001; MOUNTING: B3; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	12
5	0649042	GEARBOX: APPLICATION: ASH PLANT; SUPPL P/N: 268-9RBV10514X; GAMMASEAL 9RB105143055 VIT RVS; 4072QR10838; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4

6	0756238	GEARBOX: TYPE: BEVEL HELICAL; RATIO: 15.96 : 1; SPEED: 94 RPM; POWER: 400 KW; SHAFT SIZE: 80M6 X170 KEYED MM; APPLICATION: ASH CONVEYOR MAIN DRIVE; ROTATION DIRECTION: DUAL OUTPUT SHAFT MULTI DIRECTIONAL; MANUF P/N: X3KR210E/HU/B; DRAWING NO: A04682; INPUT SPEED 1500RPM, OUTPUT SHAFT 195H6 X 283 MM SOLID SHAFT WITHOUT KEYWAY, TYPE OF LUBRICATION SPLASH LUBRICATION.; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4
7	0710060	GEARBOX: TYPE: 3 STG; RATIO: 191.02:1; SPEED: 7.6 RPM; POWER: 5.5 KW; APPLICATION: ASH STACKER MACHINE; SPECIFICATION: KZ148-LA132-ZMP4E-L80-100NM; BEVEL HELICON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4
8	0683105	GEARBOX: TYPE: PLANETARY RIGHT ANGLE; RATIO: 214:1; SPEED: I/P: 1470 X O/P: 6.87 RPM; POWER: 5.5 KW; SHAFT SIZE: IP 75 H7 X OP 90 H7 MM; APPLICATION: RADIAL STACKER TRAVEL DRIVE; ROTATION DIRECTION: CLOCKWISE AND COUNTER CLOCKWISE; SUPPL P/N: 306-R4-214-FP-P132-B0-G0A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	8

9	0649045	GEARBOX: APPLICATION: ASH PLANT; SUPPL P/N: U65-0319022012; AFDICHTRING BASL 190X220X12; 4072QR10838; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4
10	0645223	GEARBOX: TYPE: SPEED REDUCER; RATIO: 15.5:1; SPEED: I/P 1480; O/P 95.48 RPM; POWER: 365 KW; SHAFT SIZE: I/P DIA 70 X LG 125; O/P DIA 140 X LG 200 MM; APPLICATION: CONVEYOR DRIVE; ROTATION DIRECTION: BI DIRECTIONAL; DRAWING NO: CD00002170REV3 REV 0; MODEL NO: HDD120-2-1SS-LP-D1-VP-B3-FAN-TK; REFERENCE NO: 422635102; DOUBLE OUTPUT; OVERLAND CONVEYORS; BEVEL HELICAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4
11	0698719	GEARBOX: TYPE: BEVEL GEAR; RATIO: 3:1; SPEED: 5.6 RPM; POWER: 0.25 KW; APPLICATION: NON RISING SPINDLE GATE VALVE; ROTATION DIRECTION: CLOCKWISE & ANTICLOCKWISE; DRAWING NO: BEVEL GEAR - MOV- 020-ASSY REV 0; REFERENCE NO: B2130812; DIRTY WATER CONTROL VALVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMB0756236ER (IF APPLICABLE).	Ash -Plant	12

12	0756236	GEARBOX: TYPE: BEVEL HELICAL; RATIO: 12.24 : 1; SPEED: 123 RPM; POWER: 75 KW; SHAFT SIZE: 50K6 X 110 KEYED MM; APPLICATION: ASH STACKER MAIN DRIVE; MANUF P/N: X2KR110E/HU/B; DRAWING NO: A04681; INPUT SPEED 1500 RPM, OUTPUT SHAFT 85V6 X131 MM, SOLID SHAFT WITHOUT KEYWAY, TYPE OF LUBRICATION SPLASH LUBRICATION.; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash -Plant	4
13	0700696	GEARBOX: TYPE: BEVEL HELICON THREE STAGE; RATIO: 167.50:1; SPEED: 8.7 K/MIN; POWER: 11 KW; APPLICATION: LIMESTONE STACKER MACHINE; SUPPL P/N: KZ168-LA160-MP4E-L150-GHA; S/N: JHK410 470-1408-624; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Limestone	3
14	0700664	GEARBOX: TYPE: BEVEL HELICON GEARBOX THREE STAGE; RATIO: 191.02:1; SPEED: 7.6 MIN; POWER: 5.5 KW; APPLICATION: LIMESTONE RECLAIMER MACHINE; SUPPL P/N: KZ148-LA132-SP4E-L80-GHA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Limestone	3

15	0662538	GEARBOX: TYPE: PLANETARY; RATIO: 10:1; SPEED: 1.54 RPM; POWER: 0.16 KW; SHAFT SIZE: 18 MM; APPLICATION: LIMESTONE HYDRAULIC FEEDER DRIVE; ROTATION DIRECTION: CLOCKWISE; SUPPL P/N: 2572-00-02-01; SPECIFICATION: TH-CD-2572-00-02; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Limestone	3
16	0681577	GEARBOX: TYPE: REDUCTION; RATIO: 11.2:1; SPEED: 1445 RPM; POWER: 20 KW; SHAFT SIZE: 101.5 MM; APPLICATION: COAL STACKER 1 AND 2 - CABLE REEL; ROTATION DIRECTION: CLOCKWISE AND COUNTER CLOCKWISE; SUPPL P/N: 2081624271; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal-Plant	2
17	0659892	GEARBOX: TYPE: PLANETARY; RATIO: 1:2; SPEED: 0.57 RPM; POWER: 0.2 KW; SUPPL P/N: MP1-00013-000-01; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal mobile feeders	2
18	0703897	GEARBOX: TYPE: BEVEL HELICAL; RATIO: 715-1; SPEED: 1500 RPM; POWER: 90 KW; APPLICATION: FEEDER 1600; ROTATION DIRECTION: RH; SUPPL P/N: 52-1561-RH-715-1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal buffalo feeder	2

19	0648473	GEARBOX: TYPE: HELICAL; RATIO: 49.596:1; SPEED: 1480 RPM; POWER: 334 KW; SHAFT SIZE: I/P 60 X O/P 185 MM; APPLICATION: RECLAIMER 1-3 DRUM DRIVE; SUPPL P/N: GB21/TPS-69; DRAWING NO: 0.84/10342 REV 0; PARALLEL SHAFT: TRIPPLE REDUCTION; DATASHEET SHALL BE SUPPLIED WITH EVERY DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal-Plant	2
20	0650084	GEARBOX: TYPE: BEVEL HELICAL GEAR UNIT; SPEED: 12.29-1.64 RPM; APPLICATION: DRIVE COAL FEEDER GEARBOX MILLING PLANT; SUPPL P/N: SP-KUS-F2-05403; SPLASH LUBRICATION; DESIGN: H11; TORQUE: 8007NM; BEARINGS; GEAR TEETH; SEALS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal-Plant	2
21	0664364	GEARBOX: TYPE: SLEW DRIVE 1; RATIO: 1.09; SPEED: 1.61 RPM; POWER: 0.37 KW; SHAFT SIZE: 80 MM; APPLICATION: STACKER HYDRAULIC SYSTEM 0 1EAD30 AE001-MG01; ROTATION DIRECTION: FORWARD/REVERSE; SUPPL P/N: 0973 0 07404-1-10.1; SPECIFICATION: 0973 0 07404-1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal Plant	2

22	0648472	GEARBOX: TYPE: ANGULAR HELICAL BEVEL; RATIO: 238:1; SPEED: 1440 RPM; POWER: 9.2 KW; APPLICATION: RECLAIMER 1-3 MAIN TRAVEL; ROTATION DIRECTION: BI DIRECTIONAL; SUPPL P/N: GB19/WUV100QL; DRAWING NO: 0.90/51388 REV 0; OUTPUT SHAFT: SOLID SHAFT WITH KEY; 4-STAGES; DATASHEET SHALL BE SUPPLIED WITH EVERY DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal plant	2
23	0629760	GEARBOX: TYPE: PLANETARY; RATIO: 35:8; SPEED: 350 RPM; POWER: 250 KW; SHAFT SIZE: 280 MM; APPLICATION: FEEDER CONVEYOR FDR-1; ROTATION DIRECTION: MULTITURN; SUPPL P/N: PN319L2.24/5FP.SF.V9AE-A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Limestone	2
24	0647322	GEARBOX: TYPE: BEVEL HELICAL; RATIO: 234.6:1; SPEED: 5.05 RPM; POWER: 7.5 KW; APPLICATION: STACKER TRAVEL DRIVE; ROTATION DIRECTION: CLOCK/ANTI CLOCKWISE; SUPPL P/N: GB23/BK90Z-52HR/D13MA4; DATASHEET SHALL BE SUPPLIED WITH EVERY DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal plant	2

25	0645224	GEARBOX: TYPE: SPEED REDUCER; RATIO: 1.19:5; SPEED: I/P 1480; O/P 75.89 RPM; POWER: 298 KW; SHAFT SIZE: I/P DIA 55 X LG 100; O/P DIA 140 X LG 200 MM; APPLICATION: CONVEYOR DRIVE; ROTATION DIRECTION: BI DIRECTIONAL; DRAWING NO: CD00002171REV03 REV 0; MODEL NO: HD0-120-3-19.S-LP-D1-VP-B3-FAN-TK; REFERENCE NO: 424689601; DOUBLE OUTPUT; APPLICABLE ON TRANSVERSE CONVEYORS; RATED TORQUE: 34750NM; BREATHER: GB16; OUTPUT COUPLING: TC30.330.560 D140/160; INPUT COUPLING REDUCER: TC109H D60D55; TK PIPING KIIS; INPUT COUPLING MOTOR: BR236 "BLK" 060D55; BEVEL HELICAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Ash-Plant	4
26	0662392	GEARBOX: TYPE: PLANETARY; RATIO: 100:1; SPEED: 115 RPM; POWER: 11 KW; SHAFT SIZE: 8 MM; APPLICATION: TERRACE CONVEYOR HYDRAULIC DRIVE AND CYLINDER EXTENSION SYSTEM; ROTATION DIRECTION: CLOCKWISE; SUPPL P/N: 2570-00-03-01; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal-Plant	2

27	0687606	GEARBOX: TYPE: BEVEL; RATIO: 10:1; SPEED: 232 RPM; POWER: 2 KW; SHAFT SIZE: DIA 28 MM; APPLICATION: LIMESTONE ST AND ASH RECLAIM; ROTATION DIRECTION: LH/RH; SUPPL P/N: 1691/3; REFERENCE NO: BK50/34V/IEC112/SP; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Limestone	2
28	0664366	GEARBOX: TYPE: SLEW DRIVE 2; RATIO: 1.18; SPEED: 2 RPM; POWER: 0.45 KW; SHAFT SIZE: 80 MM; APPLICATION: STACKER HYDRAULIC SYSTEM 0 1EAD30 AE002-MG01; ROTATION DIRECTION: FORWARD/REVERSE; SUPPL P/N: 0973 0 07404-1-11.1; SPECIFICATION: 0973 0 07404-1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Coal- Plant	2
29	0661441	GEARBOX: TYPE: DECLUTCHABLE; RATIO: 104:1; SPEED: 22 RPM; POWER: 1 KW; APPLICATION: GEAR OPERATOR; SPECIFICATION: ILG/D5000-SG600; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	6

30	0661440	GEARBOX: TYPE: DECLUTCHABLE; RATIO: 68:1; SPEED: 1 RPM; POWER: 0.12 KW; APPLICATION: GEAR OPERATOR; SPECIFICATION: ILG/D2400-SG600; REFERENCE NO: SH784514; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	3
31	0662106	GEARBOX: TYPE: HELICAL; RATIO: 3.62; SPEED: 1475/408 RPM; POWER: 55 KW; SHAFT SIZE: 90 MM; APPLICATION: PUMP; ROTATION DIRECTION: BI DIRECTIONAL; SPECIFICATION: SK82-IEC250; REFERENCE NO: 2007-37639-100-14421117; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	3
32	0620426	GEARBOX: TYPE: BEVEL HELICAL; RATIO: 33.88:1; SPEED: 1455/43 RPM; POWER: 30 KW; SHAFT SIZE: 110 MM; APPLICATION: AERATOR; ROTATION DIRECTION: CLOCK/ANTI CLOCKWISE; MODEL NO: ZR168K2S200L4-W; REFERENCE NO: JHK0908-3001588046/3; MOUNTING: V1-1A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	3

33	0689928	GEARBOX: TYPE: PARALLEL SHAFT; RATIO: 35.29; SPEED: 41 RPM; POWER: 1.5 KW; APPLICATION: AGITATOR; DRAWING NO: 128D 001 REV 0; REFERENCE NO: FDU1111/2074065 001/2/3; SPECIFICATION: FZAM88B-K4-(90), PLEASE PROVIDE THE FOLLOWING WITH THE GEARBOX: DRAWING, DATA SHEET AND MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	3
34	0689922	GEARBOX: TYPE: HELICAL GEAR; RATIO: 8.92; SPEED: 203 RPM; POWER: 3.3 KW; APPLICATION: AGITATOR; MODEL NO: 2047; REFERENCE NO: C23001/01; INCLUDING MOTOR ADAPTOR TO SUIT EXISTING 0.37KW MOTOR AND MALE FLANGE RIGID COUPLING, PLEASE PROVIDE THE FOLLOWING WITH THE GEARBOX: DRAWING, DATA SHEET AND MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	1
35	0690184	GEARBOX: TYPE: HELICAL GEAR; RATIO: 4.5; SPEED: 77 RPM; POWER: 13.5 KW; APPLICATION: AGITATOR; MANUF P/N: C22883/01; MODEL NO: 2087; INCLUDING MOTOR ADAPTOR TO SUIT EXISTING 3KW MOTOR AND MALE FLANGE RIGID COUPLING, PLEASE PROVIDE THE FOLLOWING WITH THE GEARBOX: DRAWING, DATA SHEET AND MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	1

36	0690185	GEARBOX: TYPE: HELICAL GEAR; RATIO: 12.68; SPEED: 110.4 RPM; POWER: 0.75 KW; APPLICATION: AGITATOR; DRAWING NO: 1.02.4908/9 REV 0; REFERENCE NO: 201018053-100 16951418/9; SPECIFICATION: SK572.1FIEC80, PLEASE PROVIDE THE FOLLOWING WITH THE GEARBOX: DRAWING, DATA SHEET AND MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	2
37	0689929	GEARBOX: TYPE: HELICAL GEAR; RATIO: 3.45; SPEED: 101 RPM; POWER: 7.6 KW; APPLICATION: AGITATOR; MODEL NO: 2077; REFERENCE NO: C22257/02; INCLUDING MOTOR ADAPTOR TO SUIT EXISTING 22KW MOTOR AND MALE FLANGE RIGID COUPLING, PLEASE PROVIDE THE FOLLOWING WITH THE GEARBOX DRAWING, DATA SHEET AND MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	2
38	0689904	GEARBOX: TYPE: HELICAL GEAR; RATIO: 14.18; SPEED: 222 RPM; POWER: 7.8 KW; APPLICATION: AGITATOR; MODEL NO: 2057; REFERENCE NO: C22257/01; INCLUDING MOTOR ADAPTOR TO SUIT EXISTING 0.55 KW MOTOR AND MALE FLANGE RIGIF COUPLING, PLEASE PROVIDE THE FOLLOWING WITH THE GEARBOX: DRAWING, DATA SHEET AND MANUAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Water Treatment Plant	1

39	0676747	GEARBOX: TYPE: PARALLEL SHAFT GEAR UNIT; RATIO: 32.34; SPEED: 44 RPM; POWER: 3 KW; SHAFT SIZE: 60 MM; APPLICATION: DEWATERING AREA SUMP AGITATOR; ROTATION DIRECTION: CLOCKWISE; DRAWING NO: 2024736-0 REV 0; SPECIFICATION: SK4282 VF VL2; REFERENCE NO: 200762844-200; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FGD	2
40	0676746	GEARBOX: TYPE: PARALLEL SHAFT GEAR UNIT; RATIO: 45.02; SPEED: 32 RPM; POWER: 7.5 KW; SHAFT SIZE: 80 MM; APPLICATION: BLOWDOWN TANK AGITATOR; ROTATION DIRECTION: CLOCKWISE; SPECIFICATION: SK7282 VF VL2; REFERENCE NO: 200964785-100; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FGD	2
41	0676745	GEARBOX: TYPE: PARALLEL SHAFT GEAR UNIT; RATIO: 26.4; SPEED: 54 RPM; POWER: 3 KW; SHAFT SIZE: 80.01 MM; APPLICATION: ABSORBER AREA SUMP AGITATOR; ROTATION DIRECTION: CLOCKWISE; SPECIFICATION: SK4282 VF VL2; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FGD	6

42	0676750	GEARBOX: TYPE: PARALLEL SHAFT GEAR UNIT; RATIO: 26.43; SPEED: 54 RPM; POWER: 3 KW; SHAFT SIZE: 80 MM; APPLICATION: REAGENT DISTRIBUTION AREA SUMP AGITATOR; ROTATION DIRECTION: CLOCKWISE; SUPPL P/N: 200762844-300; SPECIFICATION: SK4282 VF VL2; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FGD	2
43	0641320	GEARBOX: TYPE: HELICAL BEVEL GEAR UNIT; RATIO: 13.1; SPEED: 5.1 RPM; POWER: 30 KW; APPLICATION: PANTOGRAPH; ROTATION DIRECTION: BI DIRECTIONAL; SUPPL P/N: A703-UH7013.1 HSB3; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FGD	2
44	0676751	GEARBOX: TYPE: PARALLEL SHAFT GEAR UNIT; RATIO: 18.7; SPEED: 78 RPM; POWER: 11 KW; SHAFT SIZE: 100 MM; APPLICATION: REAGENT PREPARATION AREA SUMP AGITATOR; ROTATION DIRECTION: CLOCKWISE; DRAWING NO: 2024735-0 REV 0; SPECIFICATION: SK6282 VF VL2; REFERENCE NO: 2000762844-100; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FGD	2

45	0713697	GEARBOX: TYPE: 1/4 TURN; RATIO: 208:1; SPEED: 208 RPM; POWER: 28 KW; SHAFT SIZE: 60 MM; APPLICATION: COMBUSTION DAMPER; ROTATION DIRECTION: CLOCKWISE AND COUNTER CLOCKWISE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Boiler-milling plant	6
46	0654592	GEARBOX: TYPE: PLANETARY BEVEL; SPEED: 990/28.49 RPM; POWER: 920 KW; APPLICATION: COAL MILL; SUPPL P/N: KPV1750S; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Boiler-milling plant	6
47	0654956	GEARBOX: TYPE: BEVEL GEAR; SPEED: 1375/3.9 RPM; APPLICATION: DRIVE CLEAN OUT CONVEYOR GEARBOX MILLING; SUPPL P/N: SP-KUS-F2-05032; OUTPUT: 1346NM; DESIGN: H1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Boiler-milling plant	6
48	0654830	GEARBOX: TYPE: WORM; APPLICATION: GATE VALVE PRIMARY AIR MILL 10; 20; 30; 40; 50; SUPPL P/N: GS125.3; HYDRO MECHANICAL TRANSMITION; DIMENSIONS: WD 1910 X LG 2110MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Boiler-milling plant	6

49	0645162	GEARBOX: TYPE: MILL; SUPPL P/N: SP-KUS-F2-35015; DRAWING NO: B114115-35-03-IG04-00001 REV 0; SPECIFICATION: BG030; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Boiler-milling plant	6

3.2 Description of the work

The work is to Supply and Deliver Gearbox spares for Kusile Power Station in accordance with Gearbox Spares technical specification on table 1.

3.2.1 Documentation

The following are contractor's requirements:

a. The Supplier will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification, data sheet, Settings Document for programmable electronic cards etc. Check sheets or drawings for quality inspections.
b. The Supplier provides the Employer with additional spares information if so, required by the end-user
c. The supplier shall supply the preservation, storage, and handling procedures, where applicable.
d. The Supplier must ensure that all components supplied must be individually packed in such a way as to protect the parts during transport and storage. The packaging must also include the necessary labels to identify the items.
e. The spare must be to the exact same specification as installed in the plant and specified on this scope of work document. Notwithstanding the stipulated condition that the Supplier is responsible for verifying the correctness of the spare's information provided by the Employer in relation to the existing installed spare. This may include the Supplier consulting the original supplier of the spare to ensure correctness of information provided by the Employer.
f. The Supplier will ensure proper handling of the spares (from procurement of equipment, storage, and transportation).
g. The Employer may make clarification sessions available to either prospective Supplier/s to further assist the prospective Supplier's to meet the requirements of the work to be performed by the Supplier.

3.2.2 Acceptance of spares

3.2.3 Spares Identification

The spares to be procured under this SOW shall be identifiable or marked by means of the following.

a. Eskom SAP Material number (as is used in the Power Station)
b. Part description

c. OEM and/ or OEM part number

3.2.4 Obsolescence

The supplier shall inform the Employer immediately where spares are found to be obsolete, the supplier shall provide equivalent technical datasheets for approval by the end-user before initiating any procurement. No equivalent spares shall be accepted upon delivery if prior consent was not received from Eskom Power Station Engineering.

3.2.5 Packaging

1. All supplied spares shall be packaged in such a manner that they will be transported and stored without damage. This includes preventing damage due to moisture ingress, dust, and foreign objects. All spares shall be packaged and placed on a pallet crate for ease of handling.
2. Where possible, packaging to be such that procured spares can be positively identified through the packaging. Where this is not possible, the packaging to be such that it allows opening and closing of packaging and still maintain the packaging integrity thereafter.
3. Different spare types shall be packaged separately such that each spare type can be stored separately. Packaging shall be such that the spare can be identified without opening the packaging. Packaging shall be of material that will not be damaged, to an extent possible, by harsh weather conditions during transportation. If that is not possible, then the packaging shall be protected against such conditions.
4. Delivery packaging shall include as a minimum the following details

a) Purchase Order Number

b) Part Description

c) Part number

d) Eskom SAP Material number

e) Drawing number, where applicable

f) Physical address of Kusile Power Station and the Supplier

g) Contact details of the Supplier

h) Delivery notes number

3.2.6 Acceptance of spares

a. No incorrect, damaged, or faulty spares will be accepted by Eskom.

b. All the spares will be inspected and accepted by Engineering and/or OEM Technician before payment could be processed.

c. Technical Material Datasheets information must be supplied and must meet an acceptable level.

d. The Supplier must ensure that the supply and preservation of spares is done in compliance with preservation specifications and good engineering practice.

e. The Supplier must deliver all spares on a pallet for ease of storing at stores warehouse.

f. Upon delivery of the goods at the Eskom stores, an inspection of goods and the receipt must be conducted by the end-user within 7 working days after delivery.

g. The Supplier must supply the Purchaser with warrantee certificates, test certificates and the complete data book of spares at the time of delivery which shall be uploaded into the SAP system Goods Receipt document as per Work Instruction, Receive Materials - 240-54820279.

h. The Supplier must deliver the goods as per the agreed to delivery times.

i. The Supplier to provide technical datasheets as a minimum, where applicable.

3.2.7 Information to be provided to supplier

The Supplier will be provided with SOW document for execution, Purchase Order for the required stock items will be generated as the need arises.

3.2.8 Spares Management

The Purchaser may request the Supplier to provide accurate description of all spare parts included in the spares list.

3.2.9 Equipment Required

The Supplier and his sub-suppliers must possess the tools and equipment to satisfy the requirements for the scope

3.2.10 Consumables Required

The Supplier must supply his own consumables to satisfy the requirements for scope.

3.2.11 Workshop

The Supplier and his sub-suppliers are required to have suitable premises with the required tools and equipment to be able to conduct the scope of work. Eskom reserves the right to inspect the workshop premises to make sure that it is kept up to standard

3.3 Planned Key Performance Indicators (KPI)

N/A

4. Acceptance

This document has been seen and accepted by

Full Name and Surname	Designation
	Aux Engineering Line Manager
	BOP Maintenance Line Manager
	Boiler Maintenance Line Manager
	FGD Engineering Line Manager

Full Name and Surname	Designation
	Group Engineering Manager

5. Revisions

Date	Rev.	Compiler	Remarks
June 2025	1		New Document

6. Development Team

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

7. Acknowledgements

N/A