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|  | <p style="text-align: center;">Scope of Work</p> | <p style="text-align: center;">Kusile Power Station</p> |
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Title: **Kusile Power Station Supply and Delivery of Spares for Replenishment**

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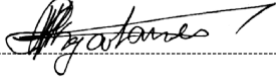
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| <p>Date: 20.03.2026</p> | <p>Date: 20.03.2026</p> | <p>Date: 20.03.2026</p> | <p>Date: 23 Mar 2026</p> |

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1. Introduction

Kusile Power Station management has decided to implement short-term procurement agreements for spares required for replenishment. These spares are considered essential due to their potential to cause partial or complete unit load losses, as well as their role in planned maintenance and emergency situations. To safeguard production continuity, these items are prioritized to minimize operational disruptions and maintain consistent efficiency and reliability across the plant.

2. Supporting Clauses

2.1 Scope

The Scope of Work (SOW) outlines the specific spares to be provided by the Supplier under a single, one-time contract agreement. 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 ensure that all maintenance spares that are being procured by Kusile Power Station are correct and correctly specified.

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] 36-681 Generation Plant Safety Regulations
- [3] 32-727 SHEQ Policy
- [4] 240-84513751: Material Specification and Certification Guideline for Power Generation Plant
- [5] 240-54820279: Receive Materials

2.2.2 Informative

N/A

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2.3 Definitions

| Abbreviation | Explanation |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Contractor | Service provider contracted to provide specific spares & documentation to Kusile Power Station. Referred to as the Supplier on this document. |
| Employer | Kusile Power Station |

2.4 Abbreviations

| Abbreviation | Description |
|----------------|-----------------------------------------|
| OEM | Original Equipment Manufacturer |
| PCLF | Planned Capability Loss Factor |
| QCP | Quality Control Plan |
| SOW | Scope of Work |
| UCF | Unit Capability Factor |
| UCLF | Unplanned Capability Loss Factor |
| SSC | Submerged Scrapper Conveyor |
| QA | Quality assurance |
| QC | Quality Control |
| NDT | Non-Destructive Testing |
| PCM | Process Control Manual |
| OD | Outside Diameter |
| PSCM | Procurement and Supply Chain Management |
| C&I | Control and instrumentation |
| WT | Wall Thickness |

2.5 Roles and Responsibilities

2.5.1 Contractor/Supplier

- a) Provide a quotation for each listed item in Appendix A / Pricing Data as part of tender deliverable
- b) Supply procured spares as requested by the Employer
- c) Provide technical support services as requested by the Employer
- d) Confirm correctness of the supplied spares information.
- e) Provide spares technical information in accordance with this SOW.
- f) Timeously inform the Employer of any delays or when outstanding or additional information
- g) from the Employer is required
- h) Responsible to ensure that a quality product is delivered

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- i) Responsible to ensure that the correct spare is supplied
- j) Responsible to ensure that every effort is made to keep to the agreed program and plan
- k) Provide all required technical datasheets and/or product brochures
- l) Provide Materials Management with populated DCFs for cataloguing of spares and record keeping
- m) Conform to all the other requirements stipulated in this document
- n) Supply all the necessary test sheets/results, where applicable
- o) All Supplier employees entering site shall comply with Eskom's policies and site regulations,
- p) adherence to Eskom's Life Saving Rules, adherence to Generation Occurrence Management
- q) Procedure, Smoking Policy, zero tolerance on alcohol usage, etc. These requirements will
- r) be detailed during the induction training process.
- s) Ensure that all staff brought onto site in connection with this SOW should be able to fluently
- t) speak, understand and write in English language.
- u) The Contractor ensures that all staff brought to Kusile PS site have a valid fitness certificate
- v) based on the specified plant man-job specification.

2.5.2 Employer: End-user

The responsibilities of the Employer include the following:

- a) Compile and submit scope of work with technical specifications.
- b) Performs Quality Control of all spares on delivery at the Employer premises.
- c) Liaise with all relevant stakeholders for any input
- d) Ensure that the Works Information is in accordance with Eskom policies and procedures.
- e) Provide all necessary information to assist in spares and technical support services Procurement
- f) Participate in technical evaluation of the tender documents
- g) Assist with the preparation of all the reports to different tender committees, where applicable
- h) Provide technical assistance to Maintenance, Materials Management and Procurement
- i) Perform Quality Checks on procured spares and accompanying documentation
- j) Verification and acceptance of all supplied documentation including DCFs
- k) Responsible for QC at delivery of procured spares
- l) Departments during the execution of this Works Information
- m) Provide Materials Management with populated DCFs for cataloguing of spares and record keeping

2.5.3 Employer: Materials Management

- a) Catalogue the spares after completion of DCFs

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- b) Confirm that the information supplied by the engineer is enough for cataloguing
- c) Perform QC on all submitted DCFs
- d) Make provision for storage of procured spares
- e) Work together with engineering and maintenance when accepting spares into stores

2.5.4 Employer: Procurement Department

- a) Perform all procurement processes outlined in this Works Information
- b) Issue invitation to tender to the Supplier
- c) Supply engineering with Supplier information for sole source justifications, where applicable.
- d) Set up clarification meetings between Supplier and Employer
- e) Act as communication link between Supplier and Employer
- f) Ensure all necessary payments are affected timeously and keep record thereof.
- g) Arrange technical evaluation sessions.
- h) Compile and present mandate to negotiate and arrange negotiation meetings if and when required and give feedback to relevant tender committee.
- i) Keep record of all tender documentation

2.5.5 Employer: QC Technician / End-user

- a) Perform inspections and QC on spares upon delivery
- b) Ensure spare items are stored properly by Materials Management as per relevant storage recommendations by the respective manufacturers
- c) Ensure Spares are used sparingly and appropriately for the duration of the contract.

2.6 Process for Monitoring

This document will be a for annual service of diesel engines for Kusile Power Station.

2.7 Related/Supporting Documents

Receiving and Issuing of Materials

3. Scope

The Scope of Work (SOW) outlines the specific spares to be provided by the Supplier under a single, one-time contract agreement. The scope included here does not substitute procurement procedures that will be followed during the procurement process.

CONTROLLED DISCLOSURE

| No. | Material | Text | UMC | QTY |
|-----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 01 | 0646869 | RELAY: SUPPL P/N: HAGG301141P0001 | EA | 1 |
| 02 | 0645148 | BEARING: SUPPL P/N: SNGS210ER40U12.1-W32-ATEX | EA | 1 |
| 03 | 0648407 | TRANSFORMER, CURRENT: CLASS: X; SUPPL P/N: 463671301 | EA | 1 |
| 04 | 0648403 | TRANSFORMER, CURRENT: SHORT CIRCUIT CURRENT: 15 VA; CURRENT RATIO: 400/5 A; CLASS: 10P; SUPPL P/N: 87595-1 | EA | 1 |
| 05 | 0241447 | DEVICE: TYPE: GENERATOR 20 HZ; SUPPL P/N: 7XT3300-0CA00; SIEMENS | EA | 1 |
| 06 | 0582417 | CONTACT, AUXILIARY: TYPE: FRONT BRAKE; CONTACT ARRANGEMENT: 1NC; CURRENT: 3,4,6 A; POTENTIAL: 230-400 V; MATERIAL: PLASTIC; CLASSIFICATION: IP20; CONNECTION: SCREW; SPECIFICATION: IEC 60947-5-1; MANUF P/N: M22-K01; REFERENCE NO: 216378; FRONT MOUNT; 6 CONTACT; TEMPERATURE -25 TO 70 DEG C; 4 AMP AT 400 VAC; 6 AMP AT 230 VAC, 3 AMP AT 24 VDC; RATED IMPULSE WITHSTAND VOLTAGE 6KV; INSULATION VOLTAGE 500V | EA | 1 |
| 07 | 0236811 | UNIT, CONTROL: TYPE: TOUCH SCREEN; SUPPLY: 220 V; INPUT: 220 V; OUTPUT: 220 V; MOUNT: FLASH; SUPPL P/N: VMCI; MODEL NO: PPC-5190A-G41-E15/R/1G-R10; REFERENCE NO: SA13305074; ONE KEY RECOVERY, CD/DVD ROM | EA | 1 |
| 08 | 0636756 | UNIT, CONTROL: SPECIFICATION: VER A03-4.4; CU240P-2-HVAC; SUPPL P/N: 6SL3244-OBA30-1HA2; TYPE: ANOLOG/DIGITAL; OUTPUT: 20 MILLIAMPERE; SUPPLY: 24 VOLT ALTERNATING CURRENT; INPUT: 15 MILLIAMPERE | EA | 1 |
| 09 | 0147744 | SWITCH, PROXIMITY: TYPE: TWO WIRE DC; SENSING RANGE: 40 MM; POTENTIAL: 5-60 VDC; ACTION: (2) SPST; CONTACT ARRANGEMENT: NO NC; SUPPL P/N: NJ15U1N; NBN40-U4-Z2; CURRENT: 20 MILLIAMPERE | EA | 1 |
| 10 | 0630876 | RELAY, TIME DELAY: OPERATION: 120 S; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: DPST; CONTACT RATING: 230 VAC 5 A; COIL VOLTAGE: 230 VAC; TERMINAL: 11 PIN; MOUNT: SOCKET; SPECIFICATION: ST-100 | EA | 1 |
| 11 | 0251678 | CONTACTOR: TYPE: MAIN; LINE VOLTAGE: 400 V; COIL VOLTAGE: 230 VAC; CURRENT: 150 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: 3RT1055-6AP36; SIZE S6; RAIL CONNECTIONS DRIVE | EA | 5 |
| 12 | 0630312 | BLOCK, TERMINAL: POTENTIAL: 400/300/275 V; CURRENT: 32-41-28-10 A; WIRE SIZE: 4 MM2; CIRCUIT: 2; WIDTH: 6.1 MM; LENGTH: WD 29 X HT 27 MM; SPECIFICATION: AKZ 4; SUPPL P/N: AKZ 4; REFERENCE NO: AKZ 4; AWG 12 TO 24. NUMBER O294360000 RATED VOLTAGE 400V, VOLTAGE SIZE C(CSA) 300V, MAXIMUM VOLTAGE (ATEX) 257V, RATED IMPULSE WITHSTAND VOLTAGE 6KV | EA | 1 |
| 13 | 0609278 | DEVICE: TYPE: INTELLIGENT ELECTRONIC; APPLICATION: GENERATOR PROTECTION SYSTEM; OEM P/N: P122BOOW112BF; PHASE: 3; EARTH CURRENT INPUT: 0.01 TO 8OHM; AUX VOLTAGE: 48-250VDC/48-240VAC; DIGITAL INPUT VOLTAGE: 220VDC 30PCT/+20PCT; COMMS INTERFACE: MODBUS; PLATFORM: SE LOOK AND FEEL PHASE 2 | EA | 2 |

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| 14 | 0635372 | SWITCH, DISCONNECT: TYPE: PROTECTION; POTENTIAL: 230 VAC; CURRENT: 6.3 A; ACTION: 3PST; MOUNT: DIN RAIL; APPLICATION: GENERATOR CIRCUIT BREAKER; SPECIFICATION: IEC 947-2; SUPPL P/N: 140MN-0630-AN00282; ULTIMATE SHORT-CIRCUIT BREAKING CAPACITY ICU-100KA; RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY: 100KA; THERMAL RELEASE ADJUSTMENT RANGE: 0.4-0.6A; PHASE: 3; RATED POWER: 0.06/0.09KW | EA | 1 |
| 15 | 0630750 | RELAY, OVERLOAD: TRIP RANGE: 0.2-27 A; TYPE: LOAD PROTECTION; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; CURRENT: 16 A; TERMINAL: SCREW; MOUNT: CLIP ON; ENCLOSURE RATING: IP20; APPLICATION: TRF MARSHALLING KIOSK UNIT; OPERATING TEMP RANGE: -20 TO 60 DEG C; SPECIFICATION: IEC EN 60947-4-1; EN 60947-5-1; SUPPL P/N: 193-ED1DB; COMPATIBLE WITH 100-C09 TO 100-C85 CONTACTORS; DIMENSIONS: WD 45 X LG 146.6 X DP 85.2 MM; OVERLOAD SOLID STATE; RELATED VOLTAGE: 690VAC | EA | 5 |
| 16 | 0638887 | SWITCH, DISCONNECT: TYPE: ADJUSTABLE MOTOR PROTECTION; POTENTIAL: 400 VAC; CURRENT: 1.6-2.5 A; ACTION: 3 PHASE POWER CIRCUIT; OPERATED: MANUAL; MOUNT: DIN RAIL; DIMENSIONS: WD 54 X HT 87.5 X DP 75.5 MM; APPLICATION: MANUAL MOTOR STARTER; SPECIFICATION: IEC EN 60947-1; SUPPL P/N: MS325-2.5-HKF11; REFERENCE NO: 1SAM150005R0007; TYPE: MS325-2.5; 1NO 1NC AUX CONTACT | EA | 3 |
| 17 | 0638875 | EARTH LEAKAGE: TYPE: CIRCUIT BREAKER; CURRENT: 63 A; POTENTIAL: 400 VAC; POLE: 3; LEAKAGE CURRENT: 50 MA; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 5SY6363-7 | EA | 2 |
| 18 | 0583320 | CONTACT: TYPE: SIGNAL CONTACT /SWITCH; POTENTIAL: 230 V; CURRENT: 6 A; APPLICATION: AUXILIARY CURRENT SWITCH; MANUF P/N: 5SW3000\ | EA | 1 |
| 19 | 0580260 | CONVERTER: TYPE: ANALOG SIGNAL; INPUT: 4-20 MA; OUTPUT: 4-20 MA; APPLICATION: DIESEL GENERATOR; RATING: 24 VDC; MANUF P/N: 1SVR011718R2500; 3 WAY ELECTRICAL ISOLATION | EA | 1 |
| 20 | 0575266 | CONTACTOR: LINE VOLTAGE: 440 V; COIL VOLTAGE: 230 V; CURRENT: 15.5 A; POLE: 3; ENCLOSURE RATING: IP20; MAXIMUM CURRENT RATING: 40 A AT 40 DEG C; MANUF P/N: 3RT1025-1AP00; SCREW CONNECTION; SIZE 00 | EA | 1 |
| 21 | 0580255 | RELAY: TYPE: THERMAL OVERLOAD; COIL VOLTAGE: 690 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 1 A; ACTION: 3PDT; TERMINAL: SCREW; MOUNT: HOOK IN; ENCLOSURE RATING: IP20; MANUF P/N: T7DU1.0 | EA | 1 |
| 22 | 0576148 | RELAY, CONTROL: CONTACT RATING: 250 VAC 7 A; CONTACT ARRANGEMENT: 1NO 1NC; COIL VOLTAGE: 230 VAC; ACTION: 4PDT; MOUNT: PLUG IN; TERMINAL: 14 PIN PLUG IN; ENCLOSURE RATING: IP65; TYPE: GENERAL PURPOSE; MANUF P/N: 55.34.8.230.0040; 4 POLE; 58 SERIES ONLY WITH 94 SERIES SOCKET; DIMENSIONS: WD 27.7 X DEPTH 20.7 X HT 37.2 MM; OPERATING POWER: 1.5 VA; OPERATING TEMPERATURE: -40 TO 85 DEG C | EA | 2 |
| 23 | 0638876 | RELAY, CONTROL: CONTACT RATING: 250 VAC 7 A; CONTACT ARRANGEMENT: 1NO 1NC; COIL VOLTAGE: 230 VAC; ACTION: 4PDT; MOUNT: PLUG IN; TERMINAL: 14 PIN PLUG IN; ENCLOSURE RATING: IP65; TYPE: GENERAL PURPOSE; MANUF P/N: 55.34.8.230.0040; 4 POLE; 58 SERIES ONLY WITH 94 SERIES SOCKET; DIMENSIONS: WD | EA | 1 |

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| | | 27.7 X DEPTH 20.7 X HT 37.2 MM; OPERATING POWER: 1.5 VA; OPERATING TEMPERATURE: -40 TO 85 DEG C | | |
| 24 | 0655085 | LIGHT, INDICATING: TYPE: PILOT; POTENTIAL: 220 VDC; POWER: 5 W; COLOR: WHITE/CLEAR; SPECIFICATION: IP65; SUPPL P/N: PL 22C HL W 220D | EA | 1 |
| 25 | 0638878 | EARTH LEAKAGE: TYPE: CIRCUIT BREAKER; CURRENT: 10 A; POTENTIAL: 230 VAC; POLE: 1; LEAKAGE CURRENT: 50 MA; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 5SY6110-7 | EA | 1 |
| 26 | 0109058 | BUCKLE: TYPE: STRAP; DIMENSIONS: WD 30 X LG 42 X THK 1.5 MM; MATERIAL: SS GR 304; REFERENCE NO: 5304 B19; SUPPL P/N: 5304 B19; HEAVY DUTY, CODE 1013, WIDTH 19MM, 100 PER BOX/1.36KG | EA | 2 |
| 27 | 0638877 | EARTH LEAKAGE: TYPE: CIRCUIT BREAKER; CURRENT: 4 A; POTENTIAL: 230 VAC; POLE: 1; LEAKAGE CURRENT: 50 MA; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 5SY5104-7 | EA | 1 |
| 28 | 0136370 | GLAND, CABLE: SIZE: NO 00; MATERIAL: BRS NICKEL PLTD; REFERENCE NO: CCG A2; 053500; CABTYRE; MALE CONNECTION; 20MM; TYPE: COMPRESSION; CONNECTION: COMPRESSION | EA | 10 |
| 29 | 0035117 | ELECTRODE, WELDING: SIZE: 3.15 MM; AWS CLASS: A5.1-91; E6013; MATERIAL: STEEL; CONTAINER: BOX 5 KG; MANUF P/N: W075-003; TEST CERTIFICATE TO BE SUPPLIED WITH EVERY CONSIGNMENT, DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY | KG | 4 |
| 30 | 0125802 | CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 380/400 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 9 A; POLE: 4; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: 3RT1016-1AP01; SIEMENS; COMPLETE WITH AUXILIARY CONTACT BLOCK REFERENCE NUMBER 3RH1911-1FA22; SUPPLIER NOTE: THE ITEM MUST BE PACKED TOGETHER IN A SEALED PLASTIC BAG; ENCLOSURE: GENERAL PURPOSE; OLD S P/N 3TF4022-0AM0 | EA | 1 |
| 31 | 0197975 | SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 1.5 M; WIDTH: 1.5 M; MATERIAL: GRAPHITE; REFERENCE NO: V30011Z3IP; TENDER RETURNABLES: GASKET SPECIFICATION SHEET; ASME GASKET FACTORS: M≤2.5, Y≤2000 PSI | EA | 1 |
| 32 | 0211975 | SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: GLASS FIBER/NBR; REFERENCE NO: C4430; KLINGERSIL; COLOUR ONE SIDE GREEN ONE SIDE WHITE; MAX TEMPERATURE 250 DEG C; MAX PRESSURE: 45 BAR; CLASSIFICATION ACC. TO BS 7531:2006: GRADE AX; ASME GASKET FACTORS: M≤1.6, Y≤20 MPA; TENDER RETURNABLES: GASKET SPECIFICATION SHEET | EA | 8 |
| 33 | 0256063 | RELAY, SOLID STATE: TYPE: DIGITAL MONITORING; COIL VOLTAGE: 160-690 VAC; CONTACT ARRANGEMENT: 2NC; MOUNT: SOCKET; SUPPL P/N: 3UG4615-1CR20; TERMINAL SCREW, FOR UNDERVOLTAGE, FOR 30 LINE VOLTAGE REVERSIBLE PHASE SEQUENCE FAILURE | EA | 2 |
| 34 | 0502183 | RELAY: TYPE: PROTECTION; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 24NO 24NC; CONTACT RATING: 220 VDC 10 A; ACTION: 14P51T; TERMINAL: 156 SCREW; MOUNT: FLUSH; ENCLOSURE RATING: IP20; MANUF P/N: P345 316 C6M0330K; 3I AND 3V | EA | 1 |
| 35 | 0580196 | BLOCK, TERMINAL: POTENTIAL: 300 V; CURRENT: 20 A; CIRCUIT: STAGE 1,2,3; WIDTH: 240 MM; LENGTH: 177 MM; TERMINAL QUANTITY: 1-14; MANUF P/N: S-P99.1-8T/BLOCK; IP52 PROTECTION | EA | 1 |

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| 36 | 0626807 | RELAY, CONTROL: CONTACT RATING: 230 VAC 2 A 400 VA; CONTACT ARRANGEMENT: 3NO; COIL VOLTAGE: 220 VAC; ACTION: 3PST; MOUNT: BRACKET; TERMINAL: SCREW; ENCLOSURE RATING: IP65; SPECIFICATION: EN 60529; TYPE: BUCHHOLZ; SUPPL P/N: ABEE30MA12; DRAWING NO: 203-10567 REV 0; REFERENCE NO: SP0848 | EA | 1 |
| 37 | 0634677 | SOCKET, ELECTRICAL: TYPE: RELAY; CONTACT: 11 PIN; POTENTIAL: 250 VAC; CONFIGURATION: DUAL IN LINE PINS; CONNECTION: SCREW; CLASSIFICATION: IP20; CURRENT: 16 A; SUPPL P/N: 92.03SMA-AN00414; MOUNT: 35 MM DIN RAIL | EA | 1 |
| 38 | 0639330 | RELAY: TYPE: LINE DIFFERENTIAL; COIL VOLTAGE: 250 VDC; CONTACT ARRANGEMENT: 6NO 4NC; CONTACT RATING: 100-240 VAC; 110-250 VDC; ACTION: (4) SPST; (3) DPST; (3) SPDT; TERMINAL: PUSH ON; MOUNT: FLUSH; ENCLOSURE RATING: IP20; SPECIFICATION: IEC 61850; SUPPL P/N: RED670-1.1A31X00C04B01X0CFKBA6X0DAAAAXD; 12 BINARY INPUTS AND 10 BINARY OUTPUTS; 3/4U X 19 IN CASE; SINGLE BREAKER; 3 PHASE TRIPPING; RESIDUAL OVERCURRENT PROTECTION; LINE DISTANCE PROTECTION; POWER SUPPLY: 100-240 VAC AND 48-250 VDC; CURRENT INPUTS 4I(10 1/5A); SERIAL COMMUNICATION; GLASS FIBRE (ST CONNECTOR) ETHERNET COMMUNICATION: ETHERNET 100BASE TX (RJ-45) AND LINE DIFFERENTIAL; MULTI MODE FIBRE (LC) DIMENSIONS:WD 164 X HT 160 X DP 210 MM; VERSION 1.1 | EA | 1 |
| 39 | 0636074 | RELAY: TYPE: CPR2-MT; COIL VOLTAGE: 250 VDC; CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 400 VAC; ACTION: SPDT; TERMINAL: SCREW; MOUNT: SCREW M10; ENCLOSURE RATING: IP65 | EA | 1 |
| 40 | 0638869 | CONTACT, AUXILIARY: TYPE: MAIN; CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 10 A; POTENTIAL: 24 VAC; MATERIAL: PVC; ATTACHMENT METHOD: SNAP ON; CONNECTION: SCREW; SUPPL P/N: 3RH1911-1FA22 | EA | 1 |
| 41 | 0641733 | SWITCH, NETWORK: TYPE: INDUSTRIAL ETHERNET; PORT TYPE: 10/100 MB/S; SPEED: 120 Mb/S; TEMPERATURE RANGE: 0-60 DEG C; POTENTIAL: 24 VDC; PORT QUANTITY: 5; CURRENT: 120 MA; DIMENSIONS: WD 25 X HT 114 X DP 79 MM; SPECIFICATION: IEC 61131-2; SUPPL P/N: 5TX; MOUNTING: DIN RAIL 35 MM; LED POWER | EA | 1 |
| 42 | 0643400 | VALVE, BALL: VALVE SIZE: DN13; DESIGN RATING: PN500; TEMPERATURE RATING: 220 DEG C; CONNECTION: G1/2 IN-FBSP; BODY MATERIAL: STAINLESS STEEL; FACE TO FACE LENGTH: 85 MM; OPERATED: WRENCH; TYPE: GAS COOLING SYSTEM; OEM P/N: BKH-DN13-G1/2-44HA; DRAWING NO: 10MKG62AA101KA01; 10MKG62AA501; 10MKG62AA502; 10MKG62AA503; 10MKG62AA101-KA01 | EA | 1 |
| 43 | 0631208 | BASE, RELAY: TYPE: CURRENT; WIDTH: 70 MM; HEIGHT: 90 MM; MATERIAL: PLASTIC; POTENTIAL: 24-240 VAC/DC; CURRENT: 0.1-15 A; POWER: 3.2 VA; LENGTH: 100 MM; SPECIFICATION: IEC EN 60 255-1; SUPPL P/N: SP9271.12-AN01483; HOUSING: IP40 IEC/EN 60 529; TERMINAL: IP20 IEC/EN 60 529 | EA | 1 |
| 44 | 0626727 | RELAY: TYPE: CONTROL; COIL VOLTAGE: 24 VAC; CONTACT ARRANGEMENT: (2) 2NO 2NC; CONTACT RATING: 220 VAC 8 A; ACTION: DPDT; TERMINAL: SCREW; MOUNT: P35MM RAIL; ENCLOSURE RATING: IP20; CONTACT MATERIAL: AGNI; | EA | 1 |

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| | | SPECIFICATION: EN 60715; SUPPL P/N: 59.32.9.220.0060V; OPERATE/RELEASE TIME: 9/3 (AC); -9/15 (DC); SERIES: 59.32 | | |
| 45 | 0643449 | VALVE, RELIEF: VALVE SIZE: 13 MM; SET PRESSURE: 200 BAR; TEMPERATURE RATING: -45 TO 180 DEG C; CONNECTION: INLET: SLIP ON FLANGE; OUTLET: WELD NECK FLANGE; BODY MATERIAL: STEEL; TRIM: STEEL; OPERATED: SPRING LOADED; APPLICATION: GAS COOLING SYSTEM; OEM P/N: 4622.3782; DRAWING NO: MKG63AA611; MODEL NO: 462 | EA | 1 |
| 46 | 0643442 | ACTUATOR: RATING: 0.04-0.34 KW AT 400V/3PH; APPLICATION: U1 CO2 EXPANSION DEVICE ISOLATING VALVE MOTOR; OEM P/N: DPMC59-L/D-8; DRAWING NO: 10MKG62AA101-M01; 10MKG62AA101-MS01; 10MKG62AA101-MG01 | EA | 1 |
| 47 | 0643440 | VALVE, SOLENOID: PIPE SIZE: DN15; STYLE: 2/2 WAY; POTENTIAL: 220 VDC; DESIGN RATING: 0-25 BAR; CONNECTION: DN14 FLANGE; BODY MATERIAL: STAINLESS STEEL; OPERATED: SOLENOID; ENCLOSURE RATING: IP65; MEDIUM: FLUID; APPLICATION: GAS COOLING SYSTEM; OEM P/N: 8499698.8441.22000; DRAWING NO: 10MKG42AA204; SERIES: 85540 | EA | 1 |
| 48 | 0581509 | FAN: TYPE: H2 CIRCULATION; DIMENSIONS: WD 700 X LG 1200 X HT 840 MM; VOLUME RATING: 20 M3/HR; DRIVER: ELECTRIC MOTOR; OEM P/N: ZVR63/380; DRAWING NO: 10MKG54AN001KN01 | EA | 1 |
| 49 | 0580249 | MODULE: TYPE: ANALOGUE EXPANSION; INPUT: 8 ANALOGUE; MANUF P/N: IS-AIN8 | EA | 1 |
| 50 | 0645101 | ELEMENT, HEATER: POTENTIAL: 230 VAC; POWER: 60 W; SUPPL P/N: 60W-203 | EA | 1 |
| 51 | 0644817 | RESISTOR: RESISTANCE: 26.8 OHM; RATING: 17.5 KV; TOLERANCE: 0.5 PCT; TYPE: NEUTRAL EARTHING; CURRENT: 318 A; SUPPL P/N: SO102380-12 | EA | 1 |
| 52 | 0645109 | TRANSFORMER, CURRENT: SUPPL P/N: WTI-1482/1.5.3-10VA | EA | 1 |
| 53 | 0645108 | TRANSFORMER, CURRENT: SUPPL P/N: 1600/1-5P60VA | EA | 1 |
| 54 | 0645107 | TRANSFORMER, CURRENT: SUPPL P/N: 1600/1-PX60VA | EA | 1 |
| 55 | 0575625 | BUSHING, ELECTRICAL CONDUCTOR: TYPE: HV; POTENTIAL: 420 KV; CURRENT: 1933 A; LENGTH: 6.341 M; DIAMETER: 680 MM; SPECIFICATION: IEC 60137; MANUF P/N: RTKF420-1675 | EA | 1 |

CONTROLLED DISCLOSURE

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| 56 | 0646256 | BUSHING: TYPE: LINE; CURRENT: 3.15 KA; BASIC INSULATION LEVEL: 750 KV; CURRENT TRANSFORMER EXTENSION DIAMETER: 125 MM; CURRENT TRANSFORMER EXTENSION: 125 MM; OIL EXTENSION: 1090 MM; FLANGE DIAMETER: 460 MM; MOUNTING HOLES: 8; PITCH CIRCLE DIAMETER: 120 MM; STEM DIAMETER: 460 MM; INSIDE DIAMETER: 125 MM; LENGTH: 730 MM; MATERIAL: PORCELAIN; DRAWING NO: 0.90/54496 REV 0; CREEPAGE DISTANCE: 690 MM; BENDING STRENGTH: 3000 N; IMPULSE VOLTAGE: 200 KVCR; VOLTAGE: 36.2 KILOVOLT | EA | 1 |
| 57 | 0635422 | ANALYZER: TYPE: GAS; RANGE: 0-100 PCT; POWER SOURCE: 100-240 VAC; SUPPL P/N: EL3060; MODEL NO: 0240725737/1030; 50-60 HZ, 187 VA MAXIMUM POWER CONSUMPTION, 100 L/H MAXIMUM FLOW RATE. 4-20 MA OUTPUT SIGNAL; MAGNOS | EA | 1 |
| 58 | 0575625 | BUSHING, ELECTRICAL CONDUCTOR: TYPE: HV; POTENTIAL: 420 KV; CURRENT: 1933 A; LENGTH: 6.341 M; DIAMETER: 680 MM; SPECIFICATION: IEC 60137; MANUF P/N: RTKF420-1675 | EA | 1 |
| 59 | 0645149 | BEARING: SUPPL P/N: CNH-B80-250/01G-W20 | EA | 1 |
| 60 | 0645147 | BEARING: SUPPL P/N: SNGS120FR42U12.1-W32-ATEX | EA | 1 |
| 61 | 0634676 | SOCKET, ELECTRICAL: TYPE: RELAY; CONTACT: 12 PIN; POTENTIAL: 250 VAC; CONFIGURATION: DUAL IN LINE PINS; CONNECTION: SCREW; CLASSIFICATION: IP20; CURRENT: 10 A; SPECIFICATION: EN 60715; SUPPL P/N: 90.03-AN02597; MOUNT: PANEL OR 35MM DIN RAIL; FOR USE WITH 60 SERIES RELAYS | EA | 1 |
| 62 | 0636072 | MODULE: TYPE: PROTECTION RELAY; INPUT: 1-5 A; POWER SOURCE: 19-110 VDC 0.5 W +/- 30 PCT; APPLICATION: GENERATOR PROTECTION PANEL; STANDARD: DIN EN61010; IEC 255-5; SUPPL P/N: P63484891144 308-408-621-462-947; DIMENSIONS: SQ 184.5 X HT 481.6 MILLIMETER | EA | 1 |
| 63 | 0645110 | THERMOMETER: TYPE: COOLER INLET/OUTLET; SPECIFICATION: PT100; SUPPL P/N: B2000270 | EA | 1 |
| 64 | 0644212 | ENCLOSURE: DIMENSIONS: THK 16 MM; MATERIAL: AL 1050; SUPPL P/N: C1000G154; PER BOX 160 SHEETS 160 KG EA | EA | 1 |
| 65 | 0581688 | KIT: TYPE: SEALING; APPLICATION: H2 COOLER; COMPRISING: (5) GASKET GME0096779P0001; (2) GASKET HTGG408760P0019; (5) GASKET GME0096779P0002; MANUF P/N: 100056 | EA | 1 |
| 66 | 0643428 | REGULATOR, PRESSURE: TYPE: VACUUM; SUPPL P/N: MR16 | EA | 1 |
| 67 | 0635422 | ANALYZER: TYPE: GAS; RANGE: 0-100 PCT; POWER SOURCE: 100-240 VAC; SUPPL P/N: EL3060; MODEL NO: 0240725737/1030; 50-60 HZ, 187 VA MAXIMUM POWER CONSUMPTION, 100 L/H MAXIMUM FLOW RATE. 4-20 MA OUTPUT SIGNAL; MAGNOS | EA | 1 |
| 68 | 0648313 | SWITCH: TYPE: TAP CHANGE ISOLATOR; SPECIFICATION: RS02190; SUPPL P/N: 5RP145-TB | EA | 1 |
| 69 | 0641727 | DRIVE, VARIABLE SPEED ELECTRICAL: TYPE: ASYNCHRONOUS MOTOR; OUTPUT RATING: 3 KW; POTENTIAL: 380-480 VAC; PHASE: 3; INPUT: 380 VAC; SPEED: 0.5-200 HZ; CURRENT: 7.2 A; ENCLOSURE: IP20; SUPPL P/N: ATV-21HU30N4 | EA | 1 |

CONTROLLED DISCLOSURE

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| 70 | 0608674 | CONVERTER, SIGNAL: TYPE: 2 WIRE TO 4 WIRE; INPUT: 4-20 MA; OUTPUT: 0-20 MA; POWER SOURCE: 10-30 VDC; APPLICATION: SURGE PROTECTION/AUTO DATA FLOW CONTROL; MOUNT: RACK; CLASSIFICATION: IP65; SUPPL P/N: ADAM4520; ISOLATOR RS232 TO RS485 (2 WIRE)/ RS422 (4 WIRE) | EA | 1 |
| 71 | 0626295 | CONTACTOR: TYPE: AUXILIARY; LINE VOLTAGE: 230 V; COIL VOLTAGE: 220 V; CURRENT: 10 A; POLE: 3; ENCLOSURE RATING: IP20; CONTACT ARRANGEMENT: 5NO 3NC; SUPPL P/N: 3RH1353 | EA | 1 |
| 72 | 0585000 | FAN: TYPE: HP CENTRIFUGAL; DIMENSIONS: DIA 874 X HT 937 MM; VOLUME RATING: 450 M3/HR; OEM P/N: HVM100-63 GR270; DRAWING NO: MKG75AN001KP01; SUCTION FLANGE-NW112; FOR GAS REGENERATION | EA | 1 |
| 73 | 0226177 | RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 6NO; CONTACT RATING: 300 VAC 5 A 1250 VA; MOUNT: PANEL; CONTACT MATERIAL: CU SILVER PLTD; SUPPL P/N: MVA11T1NA1151A | EA | 2 |
| 74 | 0631214 | CONVERTER: TYPE: DC TO DC; INPUT: 24 VDC; OUTPUT: 85-264 VAC; 120-370 VDC; APPLICATION: GENERATOR CIRCUIT BREAKER CONTROL CUBICLE; SPECIFICATION: UL1012; TUV EN 60950-1; RATING: 26.4 W 1.1 A; SUPPL P/N: S25-24/10745-AN01662; INPUT RATED CURRENT: 1.1 A; RATED POWER: 26.4 W; RIPPLE AND NOISE: 100 MVP-P; VOLTAGE ADJUSTIBLE RANGE: V21.6-26.4 V; VOLTAGE TOLERANCE: 10 PCT; LINE REGULATIONS: 0.5 PCT; LOAD REGULATIONS: 0.5 PCT; SET UP RISE TIME: 300 MS/230 VAC 800 MS; 50 MS/115 VAC AT FULL LOAD; HOLD TIME: 90 MS/230 VAC 12 MS/115 VAC AT FULL LOAD; OUTPUT FREQUENCY RANGE: 47-63 HZ; EFFICIENCY: 80 PCT 115 VAC; AC CURRENT: 0.6 A/115 VAC; 0.35 A/230 VAC; PROTECTION: OVERLOAD 105-150 PCT; OVERVOLTAGE: 27.6-32.4 V | EA | 1 |
| 75 | 0631209 | RELAY: TYPE: POWER; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 3NO (3PST-NO) +/-3MM; CONTACT RATING: 16 A; ACTION: 3PST; TERMINAL: 5 PIN; MOUNT: PLUG IN; ENCLOSURE RATING: RT I; CONTACT MATERIAL: AGCDO; SPECIFICATION: EN 60335-1; SUPPL P/N: 62.33.9.220.0300-AN02103; SERIES: 62; RATED VOLTAGE: 230 V; RATED LOAD AT C1: 4000 VA; RATED LOAD AT C15: 750 VA; BREAKING CAPACITY DC1: 16/1.1/0.7 A MINIMUM SWITCH LOAD MW(V/MA); 2 AND 3 POLE NORMALLY OPEN CONTACT | EA | 1 |
| 76 | 0581480 | TERMINAL: TYPE: SPRING LOADED SCREW CLAMP TERMINAL; RATING: 1 KV 32 KA; SPECIFICATION: IEC60947-7-1; MATERIAL: POLYAMIDE 6/6; SUPPL P/N: KULT 6; 0.5 MM2 - 6 MM2 STRANDED CONDUCTOR | EA | 2 |
| 77 | 0634487 | PUMP: TYPE: SCREW; SIZE: 65 X 50 MM; CAPACITY: 55.9-57.6 L/MIN; SPEED: 1450 RPM; RATING: 4 BAR; DRIVER: MOTOR; APPLICATION: H2 SEAL OIL; SUPPL P/N: SNGS80ER36U12.1-W32/DS35A | EA | 1 |
| 78 | 0638450 | CLUTCH, ELECTRICAL: TYPE: POWER; DIMENSIONS: DIA 10 MM; MATERIAL: STL; CURRENT: 1 A; POWER: 37.7 KW; POTENTIAL: 110 VDC; SUPPL P/N: HATM302903P0002 | EA | 1 |

CONTROLLED DISCLOSURE

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| 79 | 0568194 | MOTOR, ELECTRIC: POWER: 30 KW; SPEED: 1465 RPM; FRAME: 200L; CURRENT: 32.5 A; POTENTIAL: 690 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP65; SHAFT SIZE: 55 MM; CONNECTION LOCATION: LHS FROM NDE; CLASSIFICATION: ZONE 21; POLES: 4; INSULATION CLASS: H; PHASE: 3; CASING MATERIAL: CAST IRON; TEMPERATURE CLASS: 155 DEG F; DIRECTION: BI-DIRECTIONAL; SPECIFICATION: 1LG4 207-4AA60-Z; TYPE: SQUIRREL CAGE INDUCTION; MANUF P/N: 33207437320310; ALL TENDERS/QUOTES TO BE ACCOMPANIED BY APPLICABLE DATA SHEETS AND/OR DRAWINGS OF ITEM(S) TENDERED ON; TENDERS WITHOUT DATA SHEETS AND/OR DRAWINGS WILL BE REJECTED; EXT IIIC T135 DEG C DB; IA CERTIFICATE TO BE SUPPLIED WITH MOTOR; MOTOR TO BE FITTED WITH COOLING FAN UNIT | EA | 1 |
| 80 | 0585006 | PUMP: TYPE: SCREW; SIZE: 65 X 50 MM; CAPACITY: 120 L/MIN; SPEED: 950 RPM; RATING: 10.5 BAR; DRIVER: ELECTRIC MOTOR; CASING MATERIAL: EN-GJS-400-15; APPLICATION: SEAL OIL; MANUF P/N: SNGS120ER42U12.1-W32/DS41A | EA | 1 |
| 81 | 0585005 | PUMP: TYPE: SCREW; SIZE: 80 X 65 MM; CAPACITY: 210 L/MIN; SPEED: 2900 RPM; RATING: 13.8 BAR; DRIVER: ELECTRIC MOTOR; CASING MATERIAL: EN-GJS-400-15; APPLICATION: SEAL OIL; MANUF P/N: SNGS210ER40U12.1-W32/DS38A | EA | 1 |
| 82 | 0643451 | VALVE, RELIEF: SUPPL P/N: DS41A09-16BAR-W222 | EA | 1 |
| 83 | 0643450 | VALVE, RELIEF: VALVE SIZE: 38 MM; SET PRESSURE: 18 BAR; GRADE: W222; STYLE: BUILD ON BACK TO SUCTION; PRESSURE RANGE: 03-18 BAR; SUPPL P/N: DS38A03-18BAR-W222 | EA | 1 |
| 84 | 0643447 | COUPLING: SUPPL P/N: KTR24 | EA | 1 |
| 85 | 0643443 | PUMP, CENTRIFUGAL: SIZE: DN32; STAGE: SINGLE; DRIVER: ELECTRIC MOTOR; OEM P/N: NIT32-160/01U5A-W4-19/200; GAS COOLING SYSTEM | EA | 1 |
| 86 | 0643441 | VALVE, SOLENOID: PIPE SIZE: DN25; STYLE: 2/2 WAY; POTENTIAL: 220 VDC; DESIGN RATING: 0-25 BAR; CONNECTION: FLANGE; BODY MATERIAL: STAINLESS STEEL; OPERATED: SOLENOID; ENCLOSURE RATING: IP65; MEDIUM: FLUID; APPLICATION: GAS COOLING SYSTEM; OEM P/N: 8499697.8441.22000; DRAWING NO: MKG63AA201; SERIES: 85540 | EA | 1 |
| 87 | 0643439 | VALVE, RELIEF: SUPPL P/N: DS35A02-09BAR-W222 | EA | 1 |
| 88 | 0645662 | POWER SUPPLY: OUTPUT VOLTAGE: 24 VDC; OUTPUT CURRENT: 20 A; SUPPL P/N: SDR-480-24 | EA | 1 |
| 89 | 0644812 | BREAKER, CIRCUIT: SWITCHGEAR DESIGN: MCB; POTENTIAL: 230 VAC; CURRENT: 0.5 A; SHORT TIME CURRENT: 6 KA; POLE: 1; CONTROL VOLTAGE: 230 V; POINT ON WAVE: 0-20 A; CREEPAGE: 10 MM; BASIC INSULATION LEVEL: 4; INSULATION MATERIAL: PVC; OPERATING CONTROL TYPE: AUTOMATIC; POLLUTION CLASS: 2; APPLICATION: SWITCHING IN THE GCB; CLASSIFICATION: IP20; SPECIFICATION: IEC EN 60947-2; TEMPERATURE RATING: -25 TO 55 DEG C; WIDTH: 17.5 MM; HEIGHT: 90 MM; MOUNT: DIN RAIL; INTERRUPT CAPACITY: 4 KA; SUPPL P/N: S281UC-Z0.5 | EA | 1 |
| 90 | 0585014 | HEATER, IMMERSION: TYPE: SEAL OIL TANK WATER; DIMENSIONS: DIA 122 X LG 1830 MM; POTENTIAL: 400 V; POWER: 9 KW; CURRENT: 16 A; MANUF P/N: EXH 3F-9000-090-R; TEMP RANGE: 0-120 DEG CEL; ENCLOSURE RATING: IP66; FLANGE METHOD | EA | 1 |

CONTROLLED DISCLOSURE

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| 91 | 0645093 | TRANSFORMER, CURRENT: POTENTIAL: 1000 V; APPARENT POWER: 60 VA; CURRENT RATIO: 2700/10 A; CLASS: X; SUPPL P/N: 463670502 | EA | 3 |
| 92 | 0645091 | TRANSFORMER, CURRENT: POTENTIAL: 24/50/150 KV; CURRENT: 27000-10 A; SHORT CIRCUIT CURRENT: 180KA; 3S; CORE TYPE: IRON; CREEPAGE: 155 MM; APPARENT POWER: 50 VA; PHASE: 1; COOLING TYPE: NATURAL; WINDING MATERIAL: COPPER; SPECIFICATION: IEC 60044-1; CURRENT RATIO: 2700/10 A; TYPE: METERING AND MEASUREMENT; CLASS: 0.2; SUPPL P/N: ORG24; DRAWING NO: IT 2342X REV C; REFERENCE NO: 463671101; CT OUTER DIAMETER = 900MM, CT INNER DIAMETER = 560MM, CT HEIGHT = 110MM; TEST CERTIFICARTE REQUIRED ON EVERY DELIVERY | EA | 3 |
| 93 | 0645090 | TRANSFORMER, CURRENT: POTENTIAL: 7,2/20/60 KV; CURRENT: 10-1 A; SHORT CIRCUIT CURRENT: 66,7A; 3S; CORE TYPE: IRON; CREEPAGE: 30 MM; APPARENT POWER: 20 VA; PHASE: 1; COOLING TYPE: NATURAL; SPECIFICATION: IEC 60044-1; CURRENT RATIO: 10/1 A; TYPE: INTERPOSING; CLASS: 0.2; DRAWING NO: IT 1150X REV L OPTIONS:10012/20018/30049/OPF01 REV 0; REFERENCE NO: 463671501; GENERATOR PROTECTION TRANSFORMER; TEST CERTIFICATE REQUIRED ON EVERY DELIVERY | EA | 3 |
| 94 | 0645089 | TRANSFORMER, CURRENT: POTENTIAL: 7,2/20/60 KV; CURRENT: 10-1 A; SHORT CIRCUIT CURRENT: 66,7A; 3SEC; CORE TYPE: IRON; CREEPAGE: 30 MM; APPARENT POWER: 10 VA; PHASE: 1; COOLING TYPE: NATURAL; SPECIFICATION: IEC 60044-1; CURRENT RATIO: 10/1 A; TYPE: INTERPOSING; CLASS: 5P20; SUPPL P/N: 463670601; DRAWING NO: IT 1150X REV L OPTIONS. 10012/20018/30049/OPF01 REV 0; GENERATOR PROTECTION; RKF 24; TEST CERTIFICATE REQUIRED ON EVERY DELIVERY | EA | 3 |
| 95 | 0645088 | TRANSFORMER, CURRENT: POTENTIAL: 7,2/20/60 KV; CURRENT: 10-1 A; SHORT CIRCUIT CURRENT: 66,7A; 3SEC; CORE TYPE: IRON; CREEPAGE: 30 MM; APPARENT POWER: 22.5 VA; PHASE: 1; COOLING TYPE: NATURAL; SPECIFICATION: IEC 60044-1; CURRENT RATIO: 10/1 A; TYPE: INTERPOSING; CLASS: PX; SUPPL P/N: RKF 24; DRAWING NO: IT 1150X REV L OPTIONS.10012/20018/30049/OPF01 REV 0; REFERENCE NO: 463671601; GENERATOR PROTECTION; TEST CERTIFICATE REQUIRED ON EVERY DELIVERY | EA | 2 |
| 96 | 0580932 | BREAKER, CIRCUIT: POTENTIAL: 400VAC; 440VDC; CURRENT: 10 A; POLE: 2; TYPE: AUX; INTERRUPT CAPACITY: 6 KA; MANUF P/N: OH52820164R0427; VDE0660; 5282UC-K10 | EA | 1 |
| 97 | 0630949 | RECORDER: TYPE: SINGLE LINE, DUAL BUS MODULAR IED; POTENTIAL: 230 VAC; 24-220 VDC; RECORDING TYPE: ELECTRONICALLY/DIGITALLY; CURRENT: 1 A; SUPPL P/N: M8723Y9000151Y2X; 5000 EVENT STORAGE; TRANSDUCER INPUT OPTION THAT PROVIDES EIGHT INPUTS IN 0-1MA; 4-20MA OR 0-10V RANGES; ALL RATED TEMPERATURES AND 0-5A (AC) RANGE IS COMPLIANT TO IEC 60687 AND ANSI C12-30-1998 REVENUE; CLASS ACCURACY OF 0.2PCT; 1 RS-232 AND 3 CONFIGURABLE RS-232/RS-485 PORTS SUPPORTING BAUD RATES FROM 9600 TO 38400 | EA | 1 |
| 98 | 0581657 | MODULE, COMMUNICATION: TYPE: ETHERNET; INPUT: 5 VDC; APPLICATION: TURBINE PROTECTION SYSTEM; OEM P/N: IC695ETM001; DRAWING NO: WE4-101104-33 REV 0; PROCESSOR SPEED: 200MHZ; CONNECTORS - STATION MANAGER (RS-232) PORT: 9-PIN FEMALE D-CONNECTOR: 2X 10BASE T/100BASE TX PORTS: 8-PIN FEMALE SHIELDED RJ-45 | EA | 1 |

CONTROLLED DISCLOSURE

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| 99 | 0630875 | RELAY, CONTROL: CONTACT RATING: 250 VAC 5 A; CONTACT ARRANGEMENT: 2NO 2NC; COIL VOLTAGE: 250 VAC; ACTION: 2SPDT; MOUNT: BRACKET; TERMINAL: SCREW; CONTACT MATERIAL: SILVER; ENCLOSURE RATING: IP65; SPECIFICATION: IEC 60 529; TYPE: GENERAL PURPOSE; SUPPL P/N: NFG-Y2BC2N01; REFERENCE NO: GN0681; FLOAT ARM DRAWING: 5607; HNBR GASKET | EA | 1 |
| 100 | 0634440 | HOLDER, BRUSH: TYPE: SLIPRING; BRUSH SIZE: WD 32 X LG 80 X THK 20 MM; MATERIAL: CARBON STEEL; SPECIFICATION: ISO 9001; IEC; NEMA; DIN; TYPE: KL; BRUSH PRESSURE: 1.53N/CM2 | EA | 1 |
| 101 | 0608175 | BOARD, PRINTED CIRCUIT: TYPE: CHARGE POWER RXPE; OEM P/N: SP300- 1; CARD STATIC; APPLICATION: AUTO BOOST FAIL; SERIAL NUMBER 6V024100A12/112/0087-1-6; SUPPLIERS TO SUBMIT DATA SHEET WHEN RESPONDING TO RFQ | EA | 1 |
| 102 | 0641735 | SWITCH, NETWORK: TYPE: INDUSTRIAL FIREWALL; PORT TYPE: RJ45; SPEED: 100 Mb/S; TEMPERATURE RANGE: 0-55 DEG C; POTENTIAL: 24 VDC; CURRENT: 330 MA; DIMENSIONS: WD 47 X HT 131 X DP 111 MM; SUPPL P/N: FWTX/MM.SC; MOUNTING: DIN RAIL 35 MM; LED POWER; LINK STATUS; DATA RATE; ERROR; ACA TWISTED PAIR 0-100M; OPERATING VOLTAGE: 24VDC (-25 TO 30PCT); PROTECTION: IP20 | EA | 1 |
| 103 | 0641734 | SWITCH, NETWORK: TYPE: INDUSTRIAL FIREWALL; PORT TYPE: RJ45; SPEED: 100 Mb/S; TEMPERATURE RANGE: 0-55 DEG C; POTENTIAL: 24 VDC; CURRENT: 335 MA; DIMENSIONS: WD 47 X HT 131 X DP 111 MM; SUPPL P/N: FWTX/TX; MOUNTING: DIN RAIL 35 MM; LED POWER; LINK STATUS; DATA RATE; ERROR; ACA TWISTED PAIR 0-100M; OPERATING VOLTAGE: 24VDC (-25 TO 30PCT); PROTECTION: IP20 | EA | 1 |
| 104 | 0239948 | RELAY: TYPE: MULTIMODE; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 250 VAC 10 A; ACTION: 3 PDT; TERMINAL: 11 PIN; MOUNT: DIN RAIL; ENCLOSURE RATING: IP55; CONTACT MATERIAL: 90AG10NI; SUPPL P/N: MT321024; MODEL NO: 7-1393091-0; WITH TEST BUTTON | EA | 1 |
| 105 | 0638454 | CONTACT, AUXILIARY: TYPE: CONTROL; CONTACT ARRANGEMENT: 16NO 16NC; CURRENT: 16 A; POTENTIAL: 250 VAC; MATERIAL: AGNI; ATTACHMENT METHOD: CLIP-ON; SUPPL P/N: HAMT301634P0001; HEC 8 EARTH SWITCH AND DISCONNECTOR | EA | 1 |
| 106 | 0638455 | SWITCH, PUSHBUTTON: HEAD STYLE: RECTANGLE; COLOR: RED; ELECTRICAL RATING: 220 VDC; ACTION: 25P; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: PLUG IN; CONTACT RATING: 220 VDC; HOUSING: PLASTIC; SUPPL P/N: GPFX730247P0001 | EA | 1 |
| 107 | 0630744 | CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 400 VAC; COIL VOLTAGE: 230 VAC; CURRENT: 10 A; POLE: 4; ENCLOSURE RATING: IP20; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: 700-CF220KF; ACTION: 4PST; MOUNTING STYLE: DIN RAIL; SURFACE MOUNT; TERMINAL TYPE: SCREW; OPERATING TEMPERATURE RANGE: -50 TO 60 DEG C; DIMENSIONS: WD 45 X LG 81 X DP 80.5 MM | EA | 1 |
| 108 | 0502173 | RELAY: TYPE: SYNCHRONIZER; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 7NO; CONTACT RATING: 220 VDC; ACTION: 6P; TERMINAL: 38 SCREW; MOUNT: FLUSH; ENCLOSURE RATING: IP52; CONTACT MATERIAL: AGNI; MANUF P/N: 7VE6320-6EB92-ODAO; 6 X V; PROGRAMMABLE | EA | 1 |

CONTROLLED DISCLOSURE

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| 109 | 0139471 | SWITCH: TYPE: MICRO; POTENTIAL: 250 V; CURRENT: 16 A; CONTACT ARRANGEMENT: 1NO 1NC; MANUF P/N: BZ-2RW822-A2; SUPPL P/N: FM24NE23; DRAWING NO: 0911M02056 REV 1; SPECIFICATION: C.O.C; Q4:NSF:NC:0 | EA | 1 |
| 110 | 0643381 | BREAKER, CIRCUIT, LOW VOLTAGE: TYPE: ACB; APPLICATION: LV SWITCHGEAR; SUPPL P/N: 3WL1363-4AA37-4GA4-Z T40+R15+S07+S01+R21 | EA | 1 |
| 111 | 0643546 | CONTROLLER, ELECTRONIC: TYPE: DIGITAL TIME SWITCHES; SUPPL P/N: TR611TOP2 | EA | 1 |
| 112 | 0635255 | COOLER: TYPE: H2 SEAL OIL; DIMENSIONS: WD 320 X LG 920 X HT 545 MM; RATING: 15 KW; 16 BAR AT 60 DEG C; SERIES: M6-FG | EA | 1 |
| 113 | 0645092 | TRANSFORMER, CURRENT: APPARENT POWER: 60 VA; CURRENT RATIO: 2700/10 A; CLASS: 5P20; SUPPL P/N: 463670402 | EA | 1 |
| 114 | 0581685 | COOLER: TYPE: DISTILATE; DIMENSIONS: 1160 X 650 X 1885 MM; RATING: 1.6 MPA AT 90 DEG C; SERIES: M; MANUF P/N: M15-MFG | EA | 1 |
| 115 | 0643538 | INDICATOR: TYPE: CLOGGING; OEM P/N: A0.BBW110VEZ; DRAWING NO: MKF39CP301; MKF39CP302; LIQUID COOLING SYSTEM | EA | 1 |
| 116 | 0226532 | BREAKER, CIRCUIT: CURRENT: 6 A; POLE: 1; REFERENCE NO: 60663; C60A; (C.O.C; Q4:NSF:NC:1) | EA | 1 |
| 117 | 0624280 | CONTACT, AUXILIARY: TYPE: BLOCK; CONTACT ARRANGEMENT: 1NO 1NC; CURRENT: 10 A; POTENTIAL: 500 VAC; 250 VDC; MATERIAL: PVC; CONNECTION: SCREW; SUPPL P/N: 704.910.4 AN03807 | EA | 1 |
| 118 | 0626727 | RELAY: TYPE: CONTROL; COIL VOLTAGE: 24 VAC; CONTACT ARRANGEMENT: (2) 2NO 2NC; CONTACT RATING: 220 VAC 8 A; ACTION: DPDT; TERMINAL: SCREW; MOUNT: P35MM RAIL; ENCLOSURE RATING: IP20; CONTACT MATERIAL: AGNI; SPECIFICATION: EN 60715; SUPPL P/N: 59.32.9.220.0060V; OPERATE/RELEASE TIME: 9/3 (AC); -9/15 (DC); SERIES: 59.32 | EA | 1 |
| 119 | 0631214 | CONVERTER: TYPE: DC TO DC; INPUT: 24 VDC; OUTPUT: 85-264 VAC; 120-370 VDC; APPLICATION: GENERATOR CIRCUIT BREAKER CONTROL CUBICLE; SPECIFICATION: UL1012; TUV EN 60950-1; RATING: 26.4 W 1.1 A; SUPPL P/N: S25-24/10745-AN01662; INPUT RATED CURRENT: 1.1 A; RATED POWER: 26.4 W; RIPPLE AND NOISE: 100 MVP-P; VOLTAGE ADJUSTIBLE RANGE: V21.6-26.4 V; VOLTAGE TOLERANCE: 10 PCT; LINE REGULATIONS: 0.5 PCT; LOAD REGULATIONS: 0.5 PCT; SET UP RISE TIME: 300 MS/230 VAC 800 MS; 50 MS/115 VAC AT FULL LOAD; HOLD TIME: 90 MS/230 VAC 12 MS/115 VAC AT FULL LOAD; OUTPUT FREQUENCY RANGE: 47-63 HZ; EFFICIENCY: 80 PCT 115 VAC; AC CURRENT: 0.6 A/115 VAC; 0.35 A/230 VAC; PROTECTION: OVERLOAD 105-150 PCT; OVERVOLTAGE: 27.6-32.4 V | EA | 1 |
| 120 | 0638872 | CONTACT, AUXILIARY: TYPE: MAIN; CONTACT ARRANGEMENT: NO NC; CURRENT: 10 A; POTENTIAL: 24 VAC; MATERIAL: PVC; ATTACHMENT METHOD: CLIP ON; SPECIFICATION: DIN IEC 68-2-6; SUPPL P/N: S2C-H11L; SUITABLE FOR USE WITH S200U AND S200UP SERIES MCB | EA | 1 |
| 121 | 0638873 | TRANSFORMER, POWER: APPARENT POWER: 32 KVA; POTENTIAL: 22-0.22 KV; CURRENT: 5 A; IMPEDANCE: 0.53 OHM; VECTOR GROUP: | EA | 1 |

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| | | YND11; FREQUENCY: 50 HZ; PHASE: 1; TYPE: NEUTRAL EARTHING; SUPPL P/N: Z20423 | | |
| 122 | 0638874 | MODULE: TYPE: ANALOG OUTPUT; INPUT: 0.5-5 A; OUTPUT: 4-20 MA; POWER SOURCE: 10 VA; APPLICATION: TEMPERATURE MONITOR; DIMENSIONS: WD 200 X HT 120 X DP 84 MM; SUPPL P/N: EPT2020-OL/CT; REFERENCE NO: 6642-RZNZZZZYJSZZNZZZZ-1399541; OPERATION TEMP: -25 TO 70 DEG C; PROTECTION: IP20 | EA | 1 |
| 123 | 0641707 | MODULE: TYPE: OVERCURRENT RELAY; POWER SOURCE: 24-250 VDC; APPLICATION: EXCITATION/CONTROL SYSTEM; SUPPL P/N: MICOM-P122 A00Z112CB0 | EA | 1 |
| 124 | 0643421 | VALVE: TYPE: TEMPERATURE CONTROL; VALVE SIZE: DN 125; SUPPL P/N: 5BOBB11501-00-BTS | EA | 1 |
| 125 | 0643424 | VALVE: TYPE: TEMPERATURE CONTROL; SUPPL P/N: 2BCSJ11001-00-AA | EA | 1 |
| 126 | 0643425 | VALVE: TYPE: TEMPERATURE CONTROL; SUPPL P/N: 11/2CFSJ11001-00-AA | EA | 1 |
| 127 | 0644213 | ENCLOSURE: DIMENSIONS: THK 10 MM; MATERIAL: AL 1050; SUPPL P/N: E1700G100; PER BOX 80 SHEETS 100 KG EA | EA | 1 |
| 128 | 0645891 | HOLDER, BRUSH: TYPE: SHAFT CURRENT VOLTAGE; SUPPL P/N: BR1225 | EA | 1 |
| 129 | 0647092 | TRANSFORMER, CURRENT: POTENTIAL: 900 KV; CURRENT: 2500/1 A; SHORT CIRCUIT CURRENT: 3000/1 A; CORE TYPE: C1 2400/1 CLPX; CREEPAGE: 10 MM; PHASE: 3; SPECIFICATION: TPU 57.43; TYPE: BUS ZONE; CLASS: 5P20 | EA | 1 |
| 130 | 0647103 | TRANSFORMER, CURRENT: POTENTIAL: 2.5 VA; CURRENT: 150/1 A; SHORT CIRCUIT CURRENT: 2000/1 A; CORE TYPE: CL.X; CREEPAGE: 10 MM; PHASE: 3; SPECIFICATION: BD-00 TYPE B; TYPE: PROTECTION; CLASS: 5P20 | EA | 1 |
| 131 | 0648387 | CONNECTOR: TYPE: EARTHING TRANSFORMER; DIMENSIONS: SQ 912 MM; MATERIAL: CU FLEXIBLE; SUPPL P/N: 7S046619; LAMINATED SILVER PLATED | EA | 1 |
| 132 | 0681979 | VALVE: TYPE: PRESSURE CONTROL; VALVE SIZE: 1/4 IN; DESIGN RATING: 0.65 BAR; TEMPERATURE RATING: -29 TO 66 DEG C; CONNECTION: NPT; OPERATED: SPRING LOADED; BODY MATERIAL: ZINC INJECTION DIE CASTING; OEM P/N: GME9789557P0001; DRAWING NO: WK4-101677R0010 -120 REV C; FOR COOLING WATER UNIT | EA | 1 |
| 133 | 0648963 | BREATHING: TYPE: SILICA GEL; MATERIAL: CS; DIMENSIONS: NB 80; CONNECTION: FLANGE; SUPPL P/N: R-AB-4; PIPE MATERIAL: ASTM A106 GR.B; FLANGE MATERIAL: ASTM A105; CONNECTION SIZE AND RATING: 80NB; SANS 1123; TABLE 1000/3; RAISED FACE FLANGED ADAPTER | EA | 1 |
| 134 | 0681983 | ASSEMBLY: TYPE: MAIN FAN MACHINED; APPLICATION: GENERATOR; DIMENSIONS: ID 803.2 MM X OD 1.24 M X THK 272.5 MM; MANUF P/N: HTCM445338K0001; DRAWING NO: HTCM445528K0001-10; HTCM445529-10 REV L | EA | 1 |

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3.1 Plant Description

Kusile Power Station is a 4 800MW rated power station, with each of the six (6) Units rated at 800MW.

3.2 Description of the works

The works entails the supply and delivery of spares with technical specifications detailed in a spares list (BOQ) that is included herein: Spares Replenishment BOQ.

3.3 Documentation

The following are the Employers requirements from the Supplier:

- a) The Supplier will ensure proper handling of the spares (from procurement of equipment, storage and transportation)
- b) 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.
- c) The Supplier will supply any additional information such as brochure, general arrangement drawing, certificates (including material certificates), detailed specification, data sheet, Settings, Documents for programmable electronic cards and spares etc. Check sheets or drawings for quality inspections.
- d) The Supplier provides the Employer with additional spares information and verifies information required in the attached data capturing forms (DCF).
- e) The Supplier shall supply preservation and storage procedure/s, where applicable.
- f) The Employer may make clarification sessions available to either prospective Supplier/s in order to further assist the prospective Supplier's to meet the requirements of the work to be performed by the *Supplier*.
- g) 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.

3.4 Acceptance of Spares

3.4.1 Spares Identification

Appendix A – Pricing Data will be included in this document when additional material items, beyond those currently listed, are identified for procurement under this Scope of Work (SOW). This list corresponds to the provided electronic copy of the DCF's or SAP Specification.

Each spare is identifiable by means of an Eskom SAP Material number (as is used in the Power Station), part description, OEM and/or OEM part number.

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3.4.2 Obsolescence

The Supplier shall inform the Employer immediately where spares are found to be obsolete before the alternative spares is supplied, the Supplier shall indicate this to the Employer and indicate viable alternatives thereof.

3.4.3 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. The contractor's procedure shall be used Transportation and Storage.
2. 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.
3. 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.
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 note number

3.4.4 Acceptance of spares

- a) Incorrect, damaged or faulty spares will NOT be accepted.
- b) All the spares will be inspected and accepted by Engineering and/or OEM Technician before payment could be processed.
- c) Data capturing forms 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 to advise the Purchasers warehouse/stores on effective storage²³of spares and preservation.
- f) Upon delivery of the goods at the Eskom stores, an inspection of goods and the receipt must be conducted by the End-user and the Supplier within 48 hours of delivery. There must be an approved

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list of appointed quality inspectors available with specimen signatures and this must be updated annually. As per Work Instruction, Receive Materials – 240-54820279.

- 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 3.1 Material certificates as a minimum, where applicable.

3.4.5 Information to be provided to the Supplier

The Supplier is provided with electronic Data Capture Form (DCF) for each spare required. The Supplier is required to ensure that the correct information is captured on the DCF's. The DCF's are required by the Purchaser's Material Management System to be able to book the item in the store and the information should also be sufficient to procure the correct spares in future. Most of the DCF's have been populated by the Purchaser where information was available. This information may not be correct and needs to be reviewed and verified/corrected as part of the Services.

The DCF's are provided in Microsoft Word format. The Supplier needs to ensure the 'Track Changes' function is selected 'on' so that any changes to the existing information as well as inserted information can easily be identified and tracked. The following information needs to be provided as detailed as possible on the DCF's.

- a) Verify the existing information that is already populated on the DCF's and make changes where required. Ensure the 'track changes' function is on.
- b) Populate/verify all fields highlighted in 'yellow' on the DCF's, in the electronic format provided.
- c) Supply additional information in the field "Free Format Text" or "Purchase order text" on the DCF's. This includes:
 - The standards or specification that the product must conform to.
 - Add any spares information which has been omitted, which is deemed relevant for spares identification, packaging and protection requirements during transportation and storage.
 - The Quality Control requirements for manufacturing and testing of the product to ensure that the spares conform to the correct specifications or standards, including certificates and test results, that is required with delivery of the goods.
- d) Supply any other additional information that has not been specified on the DCF's but necessary for storage, preservation, installation, and utilisation of spares where applicable. Such information includes brochures, technical data, etc. These DCF's with the added information needs to be made available electronically to the employer.
- e) Supply any other additional information that has not been specified on the DCF's but necessary for storage, preservation, installation and utilisation of spares where applicable. Such information includes brochures, technical data, etc.

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3.5 Spares Management

Appendix A – Pricing Data will be included in this document when additional material items, beyond those currently listed, are identified for procurement under this Scope of Work (SOW). This list corresponds to the provided electronic copy of the DCF's or SAP Specification Printout that contain more information about the required spares.

Each spare is identifiable by means of an Eskom SAP Material number (as is used in the Power Station), part description, OEM and/or OEM part number.

3.6 Equipment Required

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

3.7 Consumables Required

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

3.8 Planned Key Performance Indicators (KPI)

The KPI's will be used to determine the successful performance of the scope. The Supplier is required to perform to meet these targets. The KPI's are to be agreed to between parties and are subject to change on a quarterly basis, based on the need.

- a) First committed delivery date
- b) Quality
- c) Non-compliance to the agreed Scope of Work and Quality Control Plans

3.9 Insurance of the Goods

Insurance to be the responsibility of the Supplier until delivery.

4. Acceptance

This document has been seen and accepted by:

| Name | Designation |
|-------------|--------------------|
| | |
| | |
| | |

5. Revisions

| Date | Rev. | Compiler | Remarks |
|-------------|-------------|-----------------|----------------|
| March 2026 | 1 | | First Issue |

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6. Development Team

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

7. Acknowledgements

N/A

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