

	Scope Of Work	Generation Duvha Power Station
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Title: **Supply and delivery of various
Electrical spares**

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Alternative Reference Number: **N/A**

Area of Applicability: **Duvha Power Station**

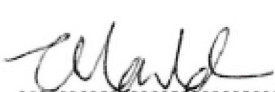
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CONTROLLED DISCLOSURE

1. INTRODUCTION

This document contains a detailed scope of work for Supply and delivery of various Electrical spares on an as and when required basis for a period of five (5) years.

All spares will be kept at stores, and the contract will be utilised by stores based on their minimum and maximum requirements.

2. SUPPORTING CLAUSES

2.1 Scope

2.1.1 Purpose

The purpose of this document is to define the scope of work for supply and delivery of various Electrical spares on an as and when required basis at Duvha Power Station. Procurement lead times will be eliminated by task order creation directly against a contract, instead of following the procurement process.

2.1.2 Applicability

This document is applicable to Duvha Power Station.

2.1.3 Effective date

This document will be effective from the authorisation date.

2.2 Normative/Informative References

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

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2.2.1 Normative

- [1] ISO 9001 Quality Management Systems
- [2] Act No 107 of 1998: National Environmental Management Act, 1998.
- [3] Act No 85 of 1993: Occupational Health and Safety Act & Regulations, 1993.
- [4] Act No 102 of 1980: National Key Points Act, 1980

2.2.2 Informative

- [5] N/A

2.3 Definitions

Definition	Explanation
Document	A piece of written, printed, or electronic matter that provides information or evidence or that serves as an official record.
Contractor	Service provider contracted for supplying specific service to Eskom, Duvha Power Station
Employer	Eskom, or Eskom Duvha Power Station
Service Manager	The Employer's representative in regard of the agreement (Contract)
Contract Manager	The Contractor's representative in regard of the agreement (Contract)

2.4 Abbreviations

Abbreviation	Explanation
AO	Analog Output

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Abbreviation	Explanation
APC	Advanced Process Control
C&I	Control and Instrumentation
CPU	Central Processing Unit
DC	Direct Current
DI	Digital Input
DO	Digital Output
DP	Decentralized Peripherals
IM	Interface Module
ISO	International Standards Organisation.
NEC	New Engineering Contract.
OMC	Operator control and monitoring station
RAM	Random Access Memory
RTC	Real-Time Check
SOW	Scope of Work.
TP	Touch Panel
VPN	Virtual Private Network

2.5 Roles and Responsibilities

The Contractor and the Service Manager shall act as stated in this contract and in a spirit of mutual trust and co-operation.

2.6 Process for Monitoring

N/A

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2.7 Related/Supporting Documents

N/A

3. SCOPE OF WORK

The scope of this contract is to supply and deliver various Electrical spares on an as and when required basis to Duvha Power Station for a period of 5 years. The type of contract to be used is NEC03 Supply Contract. The following are the spares for this contract:

Table 1: Spares List

The following are some of the components and activities on the plant that the contractor will be responsible for:

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
1.	128279	BASE, RELAY: TYPE: 11 PIN; POTENTIAL: 400 VAC; CURRENT: 10 A; REFERENCE NO: S411; CONFIGURATION OCTAL, CONNECTION SCREW, FRONT SCREW CONNECTED	EA		2	
2.	125554	BASE, RELAY: TYPE: 8 PIN; POTENTIAL: 48 V; REFERENCE NO: K248V7600OHMT18000; CONFIGURATION WEDGE, CONNECTION SOLDER, FOR USE ON TELEPHONE EMERGENCY HOOTER CIRCUITS	EA		2	
3.	137455	BRUSH, ELECTRICAL: TYPE: AC GENERATOR; WIDTH: 32 MM; LENGTH: 64 MM; THICKNESS: 20 MM; CONNECTION: FLEXIBLE SHUNT	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CABLE LG 125 MM; MATERIAL: CARBON; GRADE: RE634; SUPPL P/N: 1299/7B; DRAWING NO: 01-1561-00/120 REV 1; FOR USE ON TURBINE GENERATOR VOLTAGE MONITORING MODIFIED BRUSHGEAR; PER SET: 1			152	
4.	137695	BRUSH, ELECTRICAL: TYPE: DC MOTOR DRIVE; WIDTH: 16 MM; LENGTH: 40 MM; THICKNESS: 12 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 41 MM; MATERIAL: CARBON; 1 PER SET, ICG NO-2 DC	EA		15	
5.	140101	BRUSH, ELECTRICAL: TYPE: DC PUMP MOTOR; WIDTH: 16 MM; LENGTH: 32 MM; THICKNESS: 8 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 50 MM; MATERIAL: CARBON; SUPPL P/N: 1299/15; DRAWING NO: 01-0700-01/65 REV 1; PLANT/MACHINE: UNIT DIESEL GENERATOR OIL PUMP MOTOR; RATING 0.8KW; GRADE RE28; PER SET: 1	EA		47	
6.	137734	BRUSH, ELECTRICAL: TYPE: DC PUMP MOTOR; WIDTH: 20 MM; LENGTH: 32 MM; THICKNESS: 12 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 62 MM; MATERIAL: CARBON; GRADE: RE59; DRAWING	EA		23	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		NO: 01-1192-01/60 REV 1; REFERENCE NO: 1299/14; FOR USE ON E.F.P/DC. LUB OIL PUMP MOTOR 6,9KW; PER SET: 1.				
7.	251362	BRUSH, ELECTRICAL: TYPE: EARTHING CIRCUIT; WIDTH: 32 MM; LENGTH: 64 MM; THICKNESS: 20 MM; MATERIAL: GRAPHITE/SILVER; GRADE: SM9173; SUPPL P/N: EARTH012; DRAWING NO: 012 REV 1; AC GENERATOR, 125 MM LG FLEXIBLE SHUNT CABLE	EA		18	
8.	135670	BUSHING, ELECTRICAL CONDUCTOR: TYPE: LOW VOLTAGE; POTENTIAL: 1.1 KV; CURRENT: 220 A; REFERENCE NO: R350; TRANSFORMER	EA		2	
9.	119286	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 30 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1-G3	EA		102	
10.	119289	BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 20 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: CF3G3	EA		3	
11.	119292	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 15 A; POLE: 1; FRAME: S;	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TYPE: HYDRAULIC MAGNETIC CURVE 2; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1-G3; HEINEMANN, TIME DELAY, COMPLETE WITH THERMO PLASTIC SHROUDS, SCREWS AND CLIP TRAY			18	
12.	119477	BREAKER, CIRCUIT: POTENTIAL: 220/380 VAC; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 6 KA; REFERENCE NO: FAZ	EA		7	
13.	119820	BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 60 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF3-G3;	EA		8	
14.	119849	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; CURRENT: 25 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 3VE3000-2NA00	EA		15	
15.	120046	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 2 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF1G3V	EA		7	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
16.	120057	BREAKER, CIRCUIT: POTENTIAL: 550 VAC; CURRENT: 150 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; REFERENCE NO: NF250CS-150AMP (NEW);	EA		13	
17.	120059	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; INTERRUPT CAPACITY: 4 KA; REFERENCE NO: S212K-6A; WITH AUXILIARY CONTACTS 1NO AND 1NC,	EA		7	
18.	120064	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 20 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA	EA		95	
19.	218934	DETECTOR, RESISTANCE TEMPERATURE: TYPE: PT100; TEMPERATURE RATING: 0-80 DEG C; RESISTANCE: 100 OHM; WIRE: 3; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; SUPPL P/N: 6.0B300FS4KH2P; ELEMENT SIZE 6MM DIA X 300MM LG, SPRING LOADED, CERAMIC HEAD, NO HEAD AMPLIFIER INSTRUMENT	EA		2	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
20.	157684	CLEANER: TYPE: CONTACT ANTI RUST; FORM: AEROSOL; CONTAINER: CAN 500 G; COMPOUND FOR SWITCHES,CONTACT AND BREAKERS; PACKED 12 PER BOX; REQUIRED THE NEW STANDARD FOR RELIABILITY; MATERIAL SAFETY DATA SHEET POINT 1 TO 16	EA		340	
21.	128172	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/440 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 62 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N65-220; 30KW; ENCLOSURE: GENERAL PURPOSE	EA		12	
22.	142541	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380 VAC; CURRENT: 50 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N50CX-400; 22KW; WITH COIL; ENCLOSURE: GENERAL PURPOSE	EA		33	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
23.	128269	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 350 A; POLE: 3; ENCLOSURE RATING: GENERAL PURPOSE; CONTACT ARRANGEMENT: 1NO 1NC; REFERENCE NO: 910-338-071-00; LS247; 380VAC; 132KW; TWO SETS OF AUXILIARY CONTACT; FOR USE ON PRECIP RECTIFIER PANELS	EA		42	
24.	143218	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/240/380/440/500/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 75 A; POLE: 3; ENCLOSURE RATING: GENERAL PURPOSE; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: SK-80; 37 KILOWATT	EA		3	
25.	126367	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 200 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: S-C150; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		7	
26.	157568	CLEANER: TYPE: CONTACT; FORM: AEROSOL COMPOUND; CONTAINER: CAN 454 G; DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY;			78	
27.	157569	CLEANER: TYPE: CONTACT; FORM: SPRAY AEROSOL; CONTAINER: CAN 454 G; MANUF P/N: MS-538; RE-NU AND LUBE; DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY	EA		425	
28.	159844	CLEANER: TYPE: GENERAL PURPOSE; FORM: FOAM AEROSOL; CONTAINER: CAN 300 G; SPRAY ON/WIPE OFF; INDUSTRIAL STRENGTH	EA		47	
29.	666380	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 4 A; POTENTIAL: 230 V; MATERIAL: PLASTIC; MANUF P/N: CAL4-11	EA		3	
30.	666386	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 4 A; POTENTIAL: 230 V; MATERIAL: PLASTIC; MANUF P/N: CAL19-11	EA		7	
31.	666388	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 3NO 1NC; CURRENT: 4 A; POTENTIAL:	EA			

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		230 V; MATERIAL: PLASTIC; MANUF P/N: CAL19-11B			30	
32.	143194	CONTACTOR: COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 1NO; SUPPL P/N: CA3-12; REFERENCE NO: CA3-12-220V50-10	EA		7	
33.	128296	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 6 A; POLE: 4; REFERENCE NO: 910-332-164-00; LS02; AUXILLIARY RELAY; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		3	
34.	128295	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 16 A; POLE: 8; CONTACT ARRANGEMENT: 6NO 2NC; REFERENCE NO: 910-302-597-00; SH8-62E; AUXILLIARY RELAY; ENCLOSURE: GENERAL PURPOSE	EA		10	
35.	664492	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 190 A; POLE: 3; MANUF P/N: AF190	EA		13	
36.	664494	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL	EA			

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		VOLTAGE: 230 V; CURRENT: 265 A; POLE: 3; MANUF P/N: AF265			20	
37.	664490	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 96 A; POLE: 3; MANUF P/N: AF96	EA		5	
38.	128187	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 115/660 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 35 A; POLE: 3; REFERENCE NO: DIL0-11; 7.5KW; 380VAC; COMPLETE WITH 220VAC COIL; ENCLOSURE: GENERAL PURPOSEV; 3PHSE	EA		2	
39.	126968	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 80 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: 3ZX1012-0RT03-1AA1; RATED OPERATIONAL CURRENT AT 380V: 32A; RATED OUTPUT AT 380V: 15KW; ENCLOSURE: GENERAL PURPOSE	EA		2	
40.	128297	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 110 VAC; CURRENT: 32 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: LS1722E;	EA			

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		E910-302-677-88; ENCLOSURE: GENERAL PURPOSE; 3PHSE			2	
41.	143233	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 25 A; POLE: 2; REFERENCE NO: LC2-D099M; FORWARD AND REVERSE; 4KW; ENCLOSURE: GENERAL PURPOSE	EA		3	
42.	143195	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 230/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 20 A; POLE: 3; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: CA3-16-220VAC10; ENCLOSURE: GENERAL PURPOSE	EA		3	
43.	142538	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/440 VAC; COIL VOLTAGE: 220 V; CURRENT: 22 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; MAXIMUM CURRENT RATING: 32 A; SUPPL P/N: S-N21; 11KW; WITH COIL; ENCLOSURE: GENERAL PURPOSE	EA		7	
44.	142539	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 30 A; POLE: 3; CONTACT ARRANGEMENT:	EA			

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		2NO 2NC; SUPPL P/N: S-N25-220; 15KW; ENCLOSURE: GENERAL PURPOSE			37	
45.	142540	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/500 VAC; CURRENT: 40 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N35CX-400; 18.5KW; WITHOUT COIL; ENCLOSURE: GENERAL PURPOSE	EA		22	
46.	669981	CONTROLLER: TYPE: LIFT DOOR DRIVE; RANGE: -15 TO 50 DEG C; RATING: 80 W; APPLICATION: OUTPUT: 0-24 V; MOUNTING: SCREW; INPUT: 24 VAC; MANUF P/N: 903510G015-L; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		13	
47.	671215	CONTROLLER: TYPE: LIFT LCB2 BOARD; RANGE: -15 TO 50 DEG C; RATING: 110 V; APPLICATION: MANUF P/N: GGA21240D-1; POWER SOUCE 51 KW; DIMENSIONS WD 220 X LG 240 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE	EA			

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		PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			12	
48.	666028	CONTROLLER: TYPE: LIFTING CAR; RANGE: 0-128 H2 FREQUENCY; RATING: 180-265 V 3.1 A INPUT; APPLICATION: ELEVATOR LIFT CAR; OUTPUT: 3 A; MOUNTING: BOLTED; INPUT: AC; SUPPL P/N: GBA24350BH 1; SEMICONDUCTOR CONVERTER: TYPE: DCSS5-E, PART NO: GBA2435DBH1IP20 PROTECTION; INPUT = 1 PHASE AC 180-265 VAC 3.1 MAX AMPS 3 PHASES OUTPUT; 0-128 H2 OUTPUT; 3 A MAX OUTPUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		3	
49.	144704	CORD, ELECTRICAL: TYPE: EXPANDA; SUPPL P/N: 332825-5025; REFERENCE NO: IK545B; (4) STRANDED COPPER CONDUCTOR SIZE 2.5MM SQUARE, PVC CONDUCTOR INSULATION, SPECIAL RUBBER COVERING, COMPLETE WITH RUBBER MOULD-ON PLUGS ON EACH END, 90 DEGREE CR-49 14/4 TYPE SO, "EPM" INSULATED	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		WITH "HYTREL"SHEATH COILED RETRACTA-FLEX,CONSTRUCTED IN LEFT HAND COILED FORM,COMPLETE WITH MALE AND FEMALE COUPLINGS			102	
50.	177377	COMPRESSOR, AIR: CAPACITY: 20 KV; DISCHARGE PRESSURE: 250 BAR; POTENTIAL: 380 VAC; POWER: 15 KW; SUPPL P/N: SVC 600/250; 3PH, PISTON DISPLACEMENT: 755 1/MIN, FREE AIR DELIVERY: 585 1/MIN, STAGES: 4, CYLINDER: 4, ELECTRIC MOTOR: REVOLUTIONS: 1450 MIN, WEIGHT: 440 KG, LENGTH: 1205 MM, WIDTH: 890 MM, HEIGHT: 925 MM, OIL CAPACITY: 9,51; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		8	
51.	571057	COMPRESSOR, AIR: CAPACITY: 52.36 M3/MIN; DISCHARGE PRESSURE: 760 KPA; POTENTIAL: 3.3 KVDC; POWER: 300 KW; CURRENT: 58 A; DRIVER: MOTOR; REFERENCE NO: C400; DISCHARGE PRESSURE 760 KPA; INTAKE TEMPERATURE 35 DEG CELSIUS; INLET PRESSURE 0.830	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		(ABSOLUTE); COUPLING POWER 300KW; HUMIDITY 60%; ROTATING SPEED 2975 RPM; CW TEMPERATURE 27 DEG C; CW FLOW 460 LITRE/MIN; S17200 PLC TO CONTROL COMPRESSOR DRYER AND COOLING WATER PUMPS; 2 X 380 V COOLING WATER PUMPS INCLUDING GALVANISED CARBON STEEL WATER PIPES; INTAKE AND DISCHARGE GALVANIZED CARBON STEEL PIPEWORK FOR THE COMPRESSOR WITH COMPLETE INTAKE FILTER EQUIPMENT WITH DIFFERENTIAL PRESSURE MONITORING; SERVICE TOOL TO ENABLE UNLIMITED FAULT FINDING ON THE COMPRESSOR; A CT TO BE CONNECTED ON ON PHASE OF POWER CABLE TO CATER FOR 1 AMP INSTEAD OF 5 AMPS; ALL POWER CABLES (COMPRESSOR, PUMPS, SWITCH GEAR TO COMPRESSOR ROOM); COOLING WATER FLOW AND TEMPERATURE TRANSMITTERS; COOLING WATER TEMPERATURE AND PRESSURE GAUGES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST			10	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
52.	214724	COMPRESSOR, REFRIGERATION: TYPE: CARRIER; CAPACITY: 25 HP; SUPPL P/N: 06EX250660; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		7	
53.	214725	COMPRESSOR, REFRIGERATION: TYPE: CARRIER; CAPACITY: 35 HP; SUPPL P/N: 06EX275660; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		3	
54.	595726	COMPRESSOR, REFRIGERATION: TYPE: RECIPROCATING; CAPACITY: 1/5 HP; DRIVER: ELECTRIC MOTOR; RATING: 150 W 50 HZ; REFRIGERANT R1349; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		2	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
55.	579236	COMPRESSOR, REFRIGERATION: TYPE: ROTARY; CAPACITY: 24000 BTU; RATING: 220 VAC; TO BE DELIVERED COMPLETE WITH STARTING CAPACITOR; THERMO-PROTECTOR; MOUNTING RUBBERS; THE BTU-SIZE MUST BE WRITTEN ON THE COMPRESSOR WITH A WHITE PERMANENT MARKER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		3	
56.	052334	CONE: DIMENSIONS: LG 91 MM; MATERIAL: STL; SUPPL P/N: 908904-0032; 341607-1128; REFERENCE NO: 393371-1032; COMPLETE WITH NYLAFLOW TUBING LENGTH 91CM; KNOB; FOR SOOTBLOWER TYPE IK 545B; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		60	
57.		FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW, ONE	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0119171	TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193			333	
58.	0004509	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 415 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: NS10A; FUSE, CARTRIDGE; CURRENT 10 A, POTENTIAL 415 V, DIMENSIONS DIA 14 X LG 60 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS10A FUSE,CARTD;NS10A,10 A,415 V,BLADE KNIFE; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		217	
59.		FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LOW VOLTAGE; CASE MATERIAL: CERAMIC; MANUF P/N: FR10GG50V10; REFERENCE NO: FUS 098M; CLASS GG	EA			

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	0669505				10	
60.	0118324	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: PORCELAIN; SUPPL P/N: NFC 63210; REFERENCE NO: 133.10; PULLCAP, NORMAL CEI2692	EA		2	
61.	0118148	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 50 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO: 5SB25; 5SA151; DIAZED	EA		8	
62.	0118146	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 13 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT10; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		317	
63.		FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 550 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 32 X LG 135 MM; TYPE: CURRENT	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117365	LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: TC100			25	
64.	0117234	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26 X LG 110 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 2692; IEC 282-1; SUPPL P/N: TCP100	EA		70	
65.	0669497	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 690 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 22 X LG 58 MM; INTERRUPT CAPACITY: 200 KA; TYPE: HIGH SPEED; CASE MATERIAL: CERAMIC; MANUF P/N: 492140; GR CYLINDRICAL FUSE WITH STRIKER	EA		10	
66.	0117307	FUSE, CARTRIDGE: CURRENT: 125 A; POTENTIAL: 550 VAC; 460 VDC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 40 X LG 135 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TO BS 66-2; TF125; REFERENCE NO: B2; CLASS Q; BS 88				

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		157	
67.	0004510	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 50 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS16	EA		333	
68.	0117359	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 55 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT16; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		258	
69.		FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: TIME LAG MEDIUM; CASE MATERIAL: CERAMIC; SUPPL P/N: NS16; FUSE, CARTRIDGE; CURRENT 16 A, POTENTIAL 415 VAC, DIMENSIONS DIA 14 X LG 60 MM, TYPE TIME LAG MEDIUM, CASE MATERIAL	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0004501	CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS16~FUSE,CARTD;NS16,16 A,415 VAC,CERAMIC			433	
70.	0212135	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; TYPE: ULTRA FAST LINK; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SD420; SILIZED, FOR SEMICONDUCTOR PROTECTION ON MILL FEEDERS UNIT 1, THREAD E27	EA		8	
71.	0117367	FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 550 V; CONNECTION TYPE: SCREW CLAMP OFFSET TAGS; DIMENSIONS: DIA 35 X LG 110 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88-1975; SUPPL P/N: TFP160	EA		170	
72.		FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 660 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 34 X LG 134 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TF160; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117309	MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			2 707	
73.	0117144	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 19232; 601-030	EA		57	
74.	0118308	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: BP1167583	EA		33	
75.	0118437	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 412-403	EA		17	
76.		FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 50 MM; TYPE: SLO BLO, BOTTLE,	EA			

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	0118141	INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB211; DIAZED, TYPE TDZ, TIME DELAY, MARKING GL/GG			33	
77.	0234983	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: GENERAL PURPOSE; CASE MATERIAL: CERAMIC; REFERENCE NO: G110 2; ORDER NUMBER D94 234, WITHOUT TRIP INDICATOR	EA		53	
78.	0004527	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 240 V; CONNECTION TYPE: BLADE KNIFE TAGS; DIMENSIONS: DIA 12 X LG 47 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS20; FUSE, CARTRIDGE: CURRENT 20 A, POTENTIAL 240 V, DIMENSIONS DIA 12 X LG 47 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE TAGS, PART NUMBER: SS20~FUSE,CARTD;SS20,20 A,240 V,CERAMIC	EA		7	
79.		FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 415 VAC; 250 VDC;	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117361	CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 55 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT20; TAG ONE SIDE, TWO HOLES			513	
80.	0117226	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 415 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 13.9 X LG 60.3 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: NS20; FUSE, CARTRIDGE; CURRENT 20 A, POTENTIAL 415 VAC, DIMENSIONS DIA 13.9 X LG 60.3 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS20~FUSE, CARTD; NS20,20 A,415 VAC, CERAMIC; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		20	
81.		FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS:	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117227	DIA 22 X LG 84 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIA20; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			150	
82.	0118329	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: INSTANTANEOUS ONE TIME REJECTION; CASE MATERIAL: CERAMIC; NORMAL OPERATING, 10 MM DIA HOLE	EA		13	
83.	0118785	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 25 X LG 127 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: B1-20; 50-7000-01; TBC20; HRC, 80, WITH 2 FIXING HOLES, OR APPROVED EQUIVALENT BRAND	EA		73	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
84.	0118156	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 600 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 10 X LG 80 MM; TYPE: FAST BLOW INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: CIA20; BLOW HOLE IN LABEL, NORMAL INSTANTANEOUS	EA		17	
85.	0117236	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 40 X LG 135 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TF200	EA		325	
86.	0117317	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 240-450 V; CONNECTION TYPE: SCREW CLAMP OFFSET TAGS; DIMENSIONS: DIA 16 X LG 41 MM; TYPE: SEMICONDUCTOR; CASE MATERIAL: CERAMIC; SUPPL P/N: GSA25		EA	2	
87.		FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CENTER TAGS; DIMENSIONS: ID 50 X LG 150 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC;	EA			

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	0117379	SUPPL P/N: TKM250; HRC, LIST NO 50 011 01, CODE Q1, 2 HOLE FIXING			60	
88.	0119077	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: SLO BLO, VISUAL INDICATING; CASE MATERIAL: GLASS; REFERENCE NO: HSS06247;	EA		50	
89.	0118303	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; SUPPL P/N: 5 X 20	EA		1 083	
90.	0118287	USE, CARTRIDGE: CURRENT: 300 A; POTENTIAL: 500 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 58 X LG 150 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 3NA3250	EA		115	
91.		FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 3-3.6 KVAC; CONNECTION	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0118455	TYPE: FERRULE; DIMENSIONS: DIA 85 X LG 358 MM; TYPE: FAST BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: DRVAL6-315S; WITH SPRING LOADED STRI			30	
92.	0117310	FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 41 X LG 159 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TKM315; REFERENCE NO: 50 011 01; DUTY 80, CLASS Q1, WITH FIXING HOLES	EA		53	
93.		FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE TAGS; DIMENSIONS: DIA 14 X LG 50 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: SS32; FUSE, CARTRIDGE; CURRENT 32 A, POTENTIAL 240 VAC, DIMENSIONS DIA 14 X LG 50 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE TAGS, REFERENCE NO:	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0004646	SS32~FUSE,CARTD;32 A,240 VAC,CERAMIC			33	
94.	0118336	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 380 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: 133 32 32A; PULL CAP, TYP	EA		33	
95.	0117584	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 415 V; CONNECTION TYPE: SLOTTED; DIMENSIONS: DIA 30 X LG 100 MM; INTERRUPT CAPACITY: 80 KA; TYPE: FAST BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: 32MJ29-4; WITH 76MM FIXING CENTERS	EA		142	
96.		FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 84 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC;	EA			

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	0118481	SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIA32; HRCFUSE BODY LENGTH: 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A2			150	
97.	0119179	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 500 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 12 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT32; TAG TYPE, ONE SIDE, TWO HOLES	EA		325	
98.	0118163	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 22 X LG 130 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5000701-32; B1-32; HRC, WITH SCREW CLAMP, 2 HOLES FIXING, CLASS GG/Q1, TYPE TBC, DISTANCE BETWEEN HOLES, CTC 111MM , OUTSIDE OF BODY 25MM	EA		257	

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99.	0117521	FUSE, CARTRIDGE: CURRENT: 35 A; POTENTIAL: 500 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 28 X LG 50 MM; TYPE: FAST BLOW DUAL ELEMENT TIME DELAY BOTTLE; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB311; DIAZED, FLINK	EA		12	
100.	0118456	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 60 X LG 255 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TMT355; REFERENCE NO: 5010401-355; HRC, 4 HOLE FIXING, SIBA, CLASS GG/Q1	EA		7	
101.	0117380	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 60 X LG 206 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TM355	EA		28	
102.		FUSE, CARTRIDGE: CURRENT: 36 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117268	CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS36; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3.			5	
103.	0117216	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 13.9 X LG 50.8 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS4; FUSE, CARTRIDGE; CURRENT 4 A, POTENTIAL 240 VAC, DIMENSIONS DIA 13.9 X LG 50.8 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: SS4~FUSE,CARTD;SS4,4 A,240 VAC,BLADE KNIFE.	EA		495	
104.		FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117290	MATERIAL: GLASS; REFERENCE NO: FSF5031-034-1522; F4A250V; VISIBLE ELEMENT.			7	
105.	0117217	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 415 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 10 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: NIT4; NON INDICATING, ONE SIDE, TWO HOLES	EA		167	
106.	0117218	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 415 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NS4; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		417	
107.		FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22.5 X LG 50 MM; TYPE: BOTTLE FAST BLOW INDICATING; CASE MATERIAL:	EA			

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	0004518	CERAMIC; SUPPL P/N: 5SB121; TYPE DZ, MARKING FLINK, DIAZED			17	
108.	0118214	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: SLO BLO; CASE MATERIAL: PORCELAIN; REFERENCE NO: GL; CURRENT LIMITING	EA		33	
109.	0118168	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS40; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		160	
110.		FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26 X LG 100 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT	EA			

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	0118865	LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: JH40; J; CLASS Q1			17	
111.	0669484	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 50 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: WD 62 X LG 72 MM; INTERRUPT CAPACITY: 120 KA; TYPE: NH3; CASE MATERIAL: CERAMIC; REFERENCE NO: 383380; FUS190; DC SYSTEMS	EA		10	
112.	0117239	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 56 X LG 210 MM; INTERRUPT CAPACITY: 80 KA; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TM400; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		7	
113.		FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 22 X LG 128 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N:	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117364	TBC50; REFERENCE NO: B1; LIST NO 50 007 01, CLASS Q1			13	
114.	0117231	FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS50; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		85	
115.	0669495	FUSE, CARTRIDGE: CURRENT: 500 A; POTENTIAL: 690 V; CONNECTION TYPE: M8 BOLT; DIMENSIONS: WD 51 X LG 51 X HT 50.6 MM; INTERRUPT CAPACITY: 200 KA; TYPE: SEMICONDUCTOR PROTECTION; MANUF P/N: 6.9URD31TTF0500; REFERENCE NO: FUS 185; TTF	EA		10	
116.		FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 50 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: GLASS; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: SS6; REFERENCE NO:	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0004506	SS6; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			332	
117.	0118441	USE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 415 VAC; 250 VDC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 36 MM; TYPE: BOTTLE INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: D01; REFERENCE NO: 5SE2006; NEOZED	EA		17	
118.	0117256	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 50 MM; TYPE: BOTTLE FAST BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB131; DIAZED, FLINK	EA		35	
119.		FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: INSTANTANEOUS; CASE MATERIAL: PORCELAIN; CURRENT LIMITING; 500KV MAX RATING, NORMAL OPERATING, 10MM	EA			

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	0118322	DIA HOLE, ONE TIME, NON INDICATING			197	
120.	0117220	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT6; ONE SIDE, TWO HOLES	EA		433	
121.	0117303	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 415-550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 26 X LG 128 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TBC63; 2 HOLES FIXING; 128 MM LONG BETWEEN HOLES	EA		50	
122.	0117212	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 550 VAC; CONNECTION TYPE: LUG AXIAL SCREW CLAMP; DIMENSIONS: DIA 25.2 X LG 113 MM; TYPE: INSTANTANEOUS; CASE MATERIAL: CERAMIC; REFERENCE NO: TB63; CURRENT LIMITING; NORMAL OPERATING, 7MM DIA HOLE, 96MM CENTRES, ONE TIME, NON INDICATING	EA		33	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
123.	0118275	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP TAG; DIMENSIONS: DIA 22.2 X LG 90.5 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: TIS63; ONE SIDE, TWO HOLES; FUSE BODY LENGTH: 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		167	
124.	0118846	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 1 KV; CONNECTION TYPE: BOLTED; DIMENSIONS: DIA 34 X LG 134 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: S1981; DRAWING NO: 116/104402 ITEM 3 REV 0; FOR ROTATING RECTIFIER	EA		23	
125.	0118450	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: A94668; PRONORM CAP END, WITH TRIP INDICATOR	EA		17	
126.		FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CENTER SCREW CLAMP TAG;	EA			

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	0117305	DIMENSIONS: DIA 28 X LG 134 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: 50-008-01; HRC, LIST NUMBER 50 008 01			38	
127.	0117233	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26.2 X LG 111 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TCP80; OFF-SET TAGS 2-HOLE FIXING; FUSE BODY LENGTH: 58 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A4	EA		28	
128.	0119173	FUSE, CARTRIDGE: CURRENT: 800 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193	EA		250	
129.	0583377	FUSE: TYPE: HRC; CURRENT: 16 A; POTENTIAL: 550 VAC; CONNECTION: OFFSET TAG; DIMENSIONS: DIA 13.8 X LG 58.7 MM; MANUF P/N: NSD16	EA		133	
130.		FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 VAC; CONNECTION	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0119171	TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193			333	
131.	0119822	RELAY, OVERLOAD: TRIP RANGE: 0.32 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 3NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: BRACKET; CONTACT MATERIAL: SILVER PLTD; CIRCUIT BREAKER, TRIPLE POLE, 2.5-4AMPS, IC 6.3AMP, 300VAC, AUXILLIARY 3AMP, ENCLOSURE GENERAL PURPOSE	EA		2	
132.	0126371	RELAY, OVERLOAD: TRIP RANGE: 15-60 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-60A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT	EA		3	
133.		RELAY, OVERLOAD: TRIP RANGE: 2-8 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N:	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0126369	ET-N60-8A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			2	
134.	0126372	RELAY, OVERLOAD: TRIP RANGE: 40- 150 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N150-150A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT	EA		2	
135.	0126370	RELAY, OVERLOAD: TRIP RANGE: 5-20 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-20A-AC200V; GENERAL PURPOSE ENCLOSURE; UNIVERSAL CONTACT	EA		3	
136.	0128283	RELAY, OVERLOAD: TRIP RANGE: 54- 80 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: TH- K120(KP); ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT	EA		3	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
137.	0128298	RELAY, OVERLOAD: TRIP RANGE: 8-12 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: 25400; E910-341-936-00; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT	EA		2	
138.	0151565	RELAY, TIME DELAY: OPERATION: 0-12 MIN; ACTION: SPDT; COIL VOLTAGE: 220 VAC; TERMINAL: 8 PIN; MEDIUM: MOTOR; MODEL NO: H2C 8 SC AC220; LIMIT OPERATION/SELF RESETTING, ROUND SOCKET, COLOUR OF FRONT PANEL - RED	EA		2	
139.	0151543	RELAY, TIME DELAY: OPERATION: 1-20 MIN; ACTION: DPDT; COIL VOLTAGE: 220 VAC; TERMINAL: 11 PIN; REFERENCE NO: DT310/2; TYPE CONTINUOUS CYCLE	EA		2	
140.	0151542	RELAY, TIME DELAY: OPERATION: 1-20 S; ACTION: DPDT; COIL VOLTAGE: 220 VDC; TERMINAL: 11; SUPPL P/N: DT310-1; TYPE CONTINUOUS CYCLE	EA		2	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
141.	0128213	DELAY: OPERATION: ON 0-12 S; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: 11 PIN; CONTACT RATING: 220 VAC; COIL VOLTAGE: 220 VAC; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC; SUPPL P/N: ST30B; 1X NO INSTANTANEOUS CONTACT AND 1 X NC WITH 12 SEC DELAY AFTER DE-ENERGISING	EA		148	
142.	0151551	RELAY, TIME DELAY: OPERATION: ON 220 S TO 240 MIN; ACTION: SPDT; COIL VOLTAGE: 24 VDC; TERMINAL: 11 PIN; REFERENCE NO: DT310/1; ENERGY, RANGE 100 TO 200, INUTES, INDEFINATE CLEAN AND DRY, ENERGISE	EA		2	
143.	0128278	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 220 VAC 5 A; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK3P-5/I; 50 HZ	EA		32	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
144.	0128211	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 110 VAC 10 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: LY4-AC220; STANDARD MOUNTING	EA		175	
145.	0128538	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK2P-AC220; CLOSED TYPE	EA		12	
146.	0128212	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 110 VAC 10 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC	EA		70	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: LY4-DC 24				
147.	0128276	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK2P- DC 24; SOLDER TERMINALS, CLOSED TYPE	EA		2	
148.	0128251	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 6NO; CONTACT RATING: 1 A; ACTION: SPDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6MAB47M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW, 1700 OHMS, DOUBLE CONTACTS ONLY	EA		23	
149.		RELAY: TYPE: GENERATOR PROTECTION; COIL VOLTAGE: 115-230 VAC; 110-250 VDC; CONTACT	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0612794	ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: 1P2T; TERMINAL: SCREW; MOUNT: 19 IN FLUSH; ENCLOSURE RATING: IP50; MANUF P/N: 7UM6221-5EB92-3CBO+LOS; 50 HZ; IEC61850; OPTICAL WITH EN100; WITH ST CONNECTOR; SYSTEM INTERFACE; DIGSI MODEM; RTD BOX RS485; SERVICE INTERFACE WITH MEASURING FUNCTIONALITY FOR ENERGY; FUNCTIONALITY; GENERATOR FULL INCL SENSITIVE REF AND 100 PCT STATOR EF			3	
150.	0128164	RELAY: TYPE: INTERPOSING; COIL VOLTAGE: 22.5 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: SPST; TERMINAL: CAPTIVE SCREW; MOUNT: REAR; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: KR11	EA		50	
151.		RELAY: TYPE: THERMAL MOTOR PROTECTION TRIPPING; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 220 VAC 1.5 A; ACTION: DPDT; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING:	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0213189	PLASTIC; SUPPL P/N: 3UN8 004; 50/60 HZ, CONTACT UNIVERSAL			2	
152.	0128123	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC; REFERENCE NO: 18VRMS; 300; VOLTAGE SENSITIVE, CONTACT UNIVERSAL	EA		2	
153.	0706265	RELAY, CONTROL: CONTACT RATING: 220 VAC 5 A; CONTACT ARRANGEMENT: NO NC; COIL VOLTAGE: 220 VAC; ACTION: 3P; MOUNT: BOLT ON; TERMINAL: SCREW; TYPE: MOTOR PROTECTION; MANUF P/N: 323M F 220 A 1 (FGHO); DATA SHEET TO BE PROVIDED	EA		13	
154.		RECEPTACLE, ELECTRICAL: TYPE: CONNECTOR BODY; POLE: 1; WIRE: 4; CAT NO: E50RA20; LIMIT SWITCHES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0123242	CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			2	
155.	0123283	RECEPTACLE, ELECTRICAL: TYPE: CONNECTOR BODY; POLE: 3; WIRE: 4; REFERENCE NO: E50SB; SWITCH BODY; LIST NUMBER 93152; DOUBLE POLE; 2 NO/2 NC CONTACTS; FOR PLUG IN LIMIT SWITCH E50; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		107	
156.	0138460	RECEPTACLE, ELECTRICAL: TYPE: SOCKET; POLE: 3; POTENTIAL: 220 VAC; CURRENT: 15 A; REFERENCE NO: 12410; TYPE SWITCH, CONNECTION SCREW, SWITCH PLUG COMBINATION, SINGLE, FLUSH MOUNTED, 4 X 4 INCH (100 X 100MM), COMPLETE WITH FACE PLATE AND SCREWS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		97	
157.		RECEPTACLE, ELECTRICAL: TYPE: SOCKET; POLE: 3; WIRE: 3; POTENTIAL: 220 VAC; CURRENT: 16 A;	EA			

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	0138402	50HZ, SINGLE, SURFACE MOUNT; CONNECTION: SCREW, INDUSTRIAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			2 635	
158.	0124127	RECEPTACLE, ELECTRICAL: TYPE: WELDING; POLE: 1; WIRE: 1; CURRENT: 400 A; REFERENCE NO: 054-152; CABLE COUPLING CONNECTOR, FEMALE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		88	
159.	0124120	PLUG, ELECTRICAL: POLE: 3; WIRE: 3; POTENTIAL: 240 V; CURRENT: 16 A; SUPPL P/N: ABL17; TYPE WIRING DEVICE, MALE PLUG, CLOCK HOUR POSITION 6H, (2P+E), COMPLETE WITH GROMMET, 220-240V, IP44	EA		3	
160.		PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H11K; QUICK; MALE; FOR TYPE K	EA			

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	0156089	THERMOCOUPLES; AMERICAN STD COLOUR CODING ONLY			567	
161.	0156090	PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H20K; QUICK; FEMALE SOCKET; FOR TYPE K THERMOCOUPLES	EA		450	
162.	0123796	PLUG, ELECTRICAL: TYPE: TOP; POLE: 3; WIRE: 3; POTENTIAL: 250 VAC; CURRENT: 16 A; REFERENCE NO: PT/LX16A2P/PVCR; WIRING DEVICE; TO BE SECURED BY SCREWS AND NOT SNAPPED; SABS APPROVED; SCREWLESS CORD GRIP	EA		1 303	
163.	0124126	PLUG, ELECTRICAL: TYPE: WELDING; POLE: 1; WIRE: 1; CURRENT: 400 A; SUPPL P/N: 054-151; CABLE; MALE; QA17	EA		133	
164.	686962	SOLENOID, ELECTRICAL: DUTY TYPE: CONTROL VALVE; COIL VOLTAGE: 220 V; SUPPL P/N: RF-220V; HIGH FREQUENCY; ID 20 X OD 50 X LG 60 MM; CW SYSTEM AUTO CLOSING VALVE	EA		67	
165.	128883	SOLENOID, ELECTRICAL: DUTY TYPE: DIRECTIONAL CONTROL VALVE; COIL VOLTAGE: 220 VDC; REFERENCE NO:	EA		2	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		D16-102; FOR FOUR WAY, MODEL CODE 3D02-34-111-01-00A5, 48 WATT, FOR FRF MAIN OIL PUMP				
166.	677891	SOLENOID, ELECTRICAL: DUTY TYPE: OPEN/CLOSE; COIL VOLTAGE: 24 VDC; MANUF P/N: 507848; POWER RATING 30W	EA		3	
167.	126657	SOLENOID, ELECTRICAL: DUTY TYPE: VALVE; COIL VOLTAGE: 220 VAC; 24 VDC; SUPPL P/N: 212-A-03.0-B-MS; REFERENCE NO: FLNSCH-F-000; 043949FMLUR; 8 WATT; NOMINAL PRESSURE 0 TO 6 BAR	EA		3 683	
168.	130449	TRANSFORMER, DISTRIBUTION: TYPE: STEPDOWN; APPARENT POWER: 100 VA; POTENTIAL: 380/415-110/220-240 VAC; PHASE: 1; REFERENCE NO: 11G5CP; FOR USE ON HYDROGEN BOTTLING PLANT	EA		2	
169.	145218	WIRE, ELECTRICAL: TYPE: FLEXIBLE; SIZE: 2.5 MM2; COLOR: BLUE; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: SILICON; 100 METER PER ROLL, WITH SABS MARK OF APPROVAL ON EACH ROLL	M			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
					3 178	
170.	602188	HEATER: TYPE: S03 PROCESS AIR; POTENTIAL: 380 V; POWER: 120 KW; DIMENSIONS: LG 2.1 M; MOUNTING METHOD: FLANGE; MANUF P/N: DSD-055; DRAWING NO: EJ0400/DUVHA/1/2 REV 0; REFERENCE NO: EJ400/D/120-2/75; FLANGE DIAMETER 250NB,PRESSURE-OPERATING 70KIPA; QTY OF BANKS THREE,QTY OF THERMOCOUPLES-THREE-ONE FOR EACH BANK; QUANTITY OF TUBULAR ELEMENTS 36; WATT DENSITY-ELEMENTS 2.4 W/CM2; 3 PHASE DELTA CONNECTED COIL MUST BE MADE OF INCONEL MATERIAL; ESKOM ELECTRICAL MAINTENANCE DEPARTMENT TO CONDUCT QUALITY CONTROL CHECKS AT THE SUPPLIER SITE BEFORE DELIVERY OF THE HEATERS; QC TO BE CONDUCTED AS PER QM58 DOCUMENT 240-105658000 - SUPPLIER QUALITY MANAGEMENT SPECIFICATION	EA		23	
171.	28349	GEAR, HELICAL: TEETH: 60; BORE: 9.5 MM; FACE WIDTH: 13 MM; MATERIAL: BAKELITE; REFERENCE NO: 392681-1120; WORM GEAR; FOR IR2 GUN	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		BLOWER ON WALL BLOWERS; DIAMETRAL PITCH: 0.63; PITCH DIAMETER: 95.8MM			17	
172.	123623	SWITCH, LIMIT: POTENTIAL: 600 VAC; CURRENT: 5 A; ACTION: DPDT; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: DB2/53; REFERENCE NO: 847340-9028; FOR GUN TYPE BLOWER IR2	EA		283	
173.	0144704	CORD, ELECTRICAL: TYPE: EXPANDA; SUPPL P/N: 332825-5025; REFERENCE NO: IK545B; (4) STRANDED COPPER CONDUCTOR SIZE 2.5MM SQUARE, PVC CONDUCTOR INSULATION, SPECIAL RUBBER COVERING, COMPLETE WITH RUBBER MOULD-ON PLUGS ON EACH END, 90 DEGREE CR- 49 14/4 TYPE SO, "EPM" INSULATED WITH "HYTREL"SHEATH COILED RETRACTA-FLEX,CONSTRUCTED IN LEFT HAND COILED FORM,COMPLETE WITH MALE AND FEMALE COUPLINGS	EA		102	
174.	0704447	STARTER, ELECTRIC MOTOR: CONTACT RATING: 85 A; INDUSTRY SIZE: 45 KW; TYPE: SOFT; COIL	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		VOLTAGE: 380-415 VAC; CONTACT ARRANGEMENT: NC; SPECIFICATION: IEC 60947-4-2; REFERENCE NO: EMX3; 45 TO 65 HZ; MOMENTARY >80 V TO 240 VAC/DC, 15 K IMPEDANCE; DO NOT AUTO RESET; INITIAL CURRENT LIMIT AT 600 PCT TO KICK START THE LOAD; THEN CURRENT LIMIT AT 300 PCT FOR ACCELERATION; SUPPLIER TO CONDUCT SITE VISIT BEFORE DELIVERY; FOR USE ON TURBINE BARRING GEAR MOTOR DRIVE 37 KW MOTOR			7	
175.	0700959	BREAKER, CIRCUIT, LOW VOLTAGE: TYPE: C MOLDED CASE FRAME; CURRENT RATING: 250 A; POLES: 3; MOUNT: BASE; VOLTAGE PROTECTION LEVEL: 690 V; SHORT TIME CURRENT: 3 MS AT 10 KA; SERVICE SHORT CIRCUIT BREAKING CAPACITY: 40 KA; POLLUTION CLASS: III; ENCLOSURE RATING: 1; SPECIFICATION: SANS 156; APPLICATION: S03 HEATER PROTECTION; PROTECTION: INTERCHANGEABLE THERMAL-MAGNETIC; REFERENCE NO: JW3250F; 70-250 AMPS ADJUSTABLE	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CURRENT; SUPPLIER TO PROVIDE SPECIFICATION, TEST CERTIFICATE AND CORRECT DRAWINGS WITH A NUMBER			8	
176.	719294	COIL, ELECTRICAL: FUNCTION: FIRST SHUNT TRIP; POTENTIAL: 230-240 VDC; CURRENT: 1 A; USAGE DESIGN: 3.3KV AIS BREAKER; POWER: 140 W; MANUF P/N: 3AY1510-5F; DRAWING NO: 0.57/57713 REV 1; FIRST SHUNT TRIP COIL OR CLOSING SOLENOID; LATEST MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH ITEMS	EA		28	
177.	719295	COIL, ELECTRICAL: FUNCTION: SECOND SHUNT TRIP; POTENTIAL: 220-240 VDC; CURRENT: 0.5 A; USAGE DESIGN: 3.3 KV AIS BREAKER; POWER: 70 W; MANUF P/N: 3AX1101-2F; DRAWING NO: 0.57/57713 REV 1; BACKUP TRIP COIL; LATEST MATERIAL SAFETY DATASHEET TO BE SUPPLIED WITH ITEM	EA		28	
178.	0708638	HEATER, IMMERSION: TYPE: ELEMENT; DIMENSIONS: DIA 215 X 475	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MM; POTENTIAL: 380 V; POWER: 18 KW; CURRENT: 50 A; FLANGED			3	
179.	0136115	ROD: TYPE: SUSPENSION; DIMENSIONS: LG 11.22 M; MATERIAL: STL; REFERENCE NO: 393770-1021; FOR SOOTBLOWER TYPE IK 545B	EA		28	
180.	0053499	ELEMENT, HEATER: DIMENSIONS: DIA 3.4 MM X LG 21 M; TYPE: HOPPER; POTENTIAL: 230 VAC; POWER: 1.03 KW; MATERIAL: STAINLESS STEEL; TEMPERATURE RATING: 450 DEG C; REFERENCE NO: XSS5021; MINERAL INSULATED SHEATHED CABLE; GRADE 2.2; FOR UNITS 1 TO 3	EA		67	
181.	669983	MODULE: TYPE: RS14 CALL PRINTS; INPUT: 0-24 V; OUTPUT: 24 V; APPLICATION: LIFT REMOTE STATION; DIMENSIONS: WD 39 X LG 66 MM; OEM P/N: GAA 25005 B10	EA		142	
182.	632995	SENSOR: TYPE: ELEVATOR LEVEL; RANGE: 90 DEG C; RATING: 1.1 KW AT 16 A; ELECTRICAL CONNECTION: PLUG; MOUNT: SCREW; DIMENSIONS: WD 40 X LG 350 X HT 255 MM; SUPPL P/N: GAA22439E12; COMPLETE PRS FOR SHAFT-GAA22439W12	EA		53	

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
183.	666028	CONTROLLER: TYPE: LIFTING CAR; RANGE: 0-128 H2 FREQUENCY; RATING: 180-265 V 3.1 A INPUT; APPLICATION: ELEVATOR LIFT CAR; OUTPUT: 3 A; MOUNTING: BOLTED; INPUT: AC; SUPPL P/N: GBA24350BH 1; SEMICONDUCTOR CONVERTER: TYPE: DCSS5-E, PART NO: GBA2435DBH1IP20 PROTECTION; INPUT = 1 PHASE AC 180-265 VAC 3.1 MAX AMPS 3 PHASES OUTPUT; 0-128 H2 OUTPUT; 3 A MAX OUTPUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		3	
184.	669984	CONTROLLER, ELECTRONIC: TYPE: TOP LIFT CAR; POTENTIAL: 220 V; OUTPUT: 0-265 V; INPUT: 180-265 V; MOUNTING: SCREW; CURRENT: 1.6-3 A; POWER: 265 W; MANUF P/N: GBA 24350 BH 3; PROTECTION IP20; FOR USE ON ADMIN BUILDING LIFT; TYPE DCSS5-E; WD 73 X LG 310 X THK 50MM	EA		2	
185.	671217	CONTROLLER, ELECTRONIC: TYPE: LIFT DRIVE; POTENTIAL: 380-480 V; OUTPUT: 45/90 A; INPUT: 40/60 A;	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MOUNTING: BOLTED; POWER: 15 KW; MANUF P/N: GAA21344-C1; OVF 20 CR; FOR USE IN MOTOR ROOM; PROTECTION IP20			8	
186.	0632995	SENSOR: TYPE: ELEVATOR LEVEL; RANGE: 90 DEG C; RATING: 1.1 KW AT 16 A; ELECTRICAL CONNECTION: PLUG; MOUNT: SCREW; DIMENSIONS: WD 40 X LG 350 X HT 255 MM; SUPPL P/N: GAA22439E12; COMPLETE PRS FOR SHAFT-GAA22439W12	EA		53	
187.	0648645	BREAKER, CIRCUIT: SWITCHGEAR DESIGN: AIR INSULATED; POTENTIAL: 12 KV; CURRENT: 800 A; SHORT TIME CURRENT: 31.5 KA; POLE: 3; CONTROL VOLTAGE: 220 VDC; POINT ON WAVE: NONE; CREEPAGE: 179 MM; BASIC INSULATION LEVEL: 28/75 KV; INSULATION MATERIAL: AIR; OPERATING CONTROL TYPE: VACUUM; POLLUTION CLASS: NORMAL; APPLICATION: PROTECTION DEVICE; MANUF P/N: 3AE1555-1	EA		23	
188.	0194331	SOLVENT: TYPE: ELECTRICAL CLEANER; CONTAINER: 25 L; SUPPL P/N: FO655; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL	L			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; ENVIRO			1 283	
189.	0043118	COMPRESSOR, REFRIGERATION: TYPE: AIR CONDITIONING; RATING: 380 V; REFERENCE NO: 754F5; MODEL DMRH 750; DWM COPELAND; FOR LABORATORY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		5	
190.	0117229	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 80 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA25; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3				

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
			EA		17	
191.	0118677	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 19232; 601-030	EA		10	
192.	120031	BREAKER, CIRCUIT: POTENTIAL: 380-660 VAC; CURRENT: 63 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; MOULDED CASE, COIL 220 VOLT AC	EA		5	
193.	0125496	RELAY, OVERLOAD: TRIP RANGE: 7-10 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: LR1D09-314	EA		2	
194.		RELAY, OVERLOAD: TRIP RANGE: 110-360 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N360-360A-AC200V; ENCLOSURE	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0126373	GENERAL PURPOSE; UNIVERSAL CONTACT			8	
195.	0128074	RELAY, OVERLOAD: TRIP RANGE: 1.9-2.8 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; UNIVERSAL CONTCT, 600V MAXIMUM 3 PHASE 25 TO 60 HZ TYPE	EA		5	
196.	0128139	RELAY, OVERLOAD: TRIP RANGE: 2.4-4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: OPEN; APPLICATION: LANCE SOOTBLOWER; REFERENCE NO: TSA-45P	EA		5	
197.		RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 220 VDC 5 A; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0128210	PLTD; REFERENCE NO: MK3P-5; THREE POLE DOUBLE THROW			5	
198.	0128281	RELAY, OVERLOAD: TRIP RANGE: 1-1.6 A; TYPE: THERMAL; REFERENCE NO: CTA3-12; UNIVERSAL CONTACT			5	
199.	0128332	RELAY, TIME DELAY: OPERATION: ON 0.1-0.3 S; CONTACT ARRANGEMENT: 3NO 1NC; ACTION: SPDT; CONTACT RATING: 220 V; COIL VOLTAGE: 220 VDC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: AK513031; D5 PR5NKAHY; HESG442183F112; 22 KV CIRCUIT BREAKER	EA		5	
200.	0128334	CONTACTOR:CONTROL;220/660 VAC;240 VDC;20			3	
201.		RELAY: TYPE: PHASE FAILURE SEQUENCE; COIL VOLTAGE: 380 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 10 A; ACTION: (3) SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: PLUG IN; ENCLOSURE RATING: CASING PLASTIC; SUPPL P/N:	EA			

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ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0128537	SM170 380 3; FOR USE ON DIESEL GENERATOR VOLTAGE MONITORING, CONTACT UNIVERSAL			5	
202.	0156089	PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H11K; QUICK; MALE; FOR TYPE K THERMOCOUPLES; AMERICAN STD COLOUR CODING ONLY	EA		567	
203.	0160594	WADER:FISHERMANS;8;PVC;GREEN OLIVE	PAA		3	
204.	0231111	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 12 KV; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 63.5 X LG 254 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: 30 144 36; FOR AIR AND OIL INSULATED SWITCHGEAR, FITTED WITH STRIKER PIN INDICATOR	EA		5	
205.	0589102	COMPRESSOR REFRGRTN:HERMETIC SCROLL;34.7	EA		5	
206.	0721893	INVERTER:DIP PROOF;4.5 KVA;230 VAC	EA		5	

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4. ACCEPTANCE

This document has been seen and accepted by:

Note: Initials not acceptable

Full Name and Surname	Designation
Sam Malaka	EMD Maintenance Senior Supervisor
Papikisi Mogomotsi	EMD Maintenance Senior Supervisor
Vish Padayachee	EMD Maintenance Senior Supervisor
Millicent Phukuntsi	EMD Technician
Tebogo Mailola	Senior Advisor Electrical
Dumisani Thabang	EMD Manager
Nkosana Mlangeni	Materials Management Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
April 2026	0	Calvin Khoza	To formalise contract scope

6. DEVELOPMENT TEAM

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

- Millicent Phukuntsi

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7. ACKNOWLEDGEMENTS

Insert text here.

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