



NEC3 Term Service Contract (TSC3)

**Between ESKOM HOLDINGS SOC Ltd
(Reg No. 2002/015527/30)**

**and
(Reg No:)**

**for Supply, Delivery and Service/Repair/Refurbishment
of GE SA Plus LV Switchgear
Assemblies/Components installed at Grootvlei
Power Station. As and when required**

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CONTRACT No.

PART C1: AGREEMENTS & CONTRACT DATA

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C1.1 Form of Offer & Acceptance

Offer

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station.

The tenderer, identified in the Offer signature block, has examined the documents listed in the Tender Data and addenda thereto and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance the tenderer offers to perform all of the obligations and liabilities of the *Contractor* under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the *conditions of contract* identified in the Contract Data.

Options A	The offered total of the Prices exclusive of VAT is	R
	Value Added Tax @ 15% is	R
	The offered total of the amount due inclusive of VAT is ¹	R
	(in words)	

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document including the Schedule of Deviations (if any) to the tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, whereupon the tenderer becomes the party named as the *Contractor* in the *conditions of contract* identified in the Contract Data.

Signature(s)

Name(s)

Capacity

**For the
tenderer:**

(Insert name and address of organisation)

Name &
signature of
witness

Date

Tenderer's CIDB registration number: 10030216

¹ This total is required by the *Employer* for budgeting purposes only. Actual amounts due will be assessed in terms of the *conditions of contract*.

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required**Acceptance**

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the *conditions of contract* identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the Employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

Part C1	Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
Part C2	Pricing Data
Part C3	Scope of Work: Service Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed and signed original copy of this document, including the Schedule of Deviations (if any).

Signature(s)

Name(s)

Capacity

**for the
Employer**

(Insert name and address of organisation)

Name &
signature of
witness

Date

Note: If a tenderer wishes to submit alternative tenders, use another copy of this Form of Offer and Acceptance.

No.	Subject	Details

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Form shall have any meaning or effect in the contract between the parties arising from this Agreement.

For the Employer

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C1.2 TSC3 Contract Data

Part one - Data provided by the *Employer*

Completion of this data in full, according to the Options chosen, is essential to create a complete contract.

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option:	
		A: Priced contract with price list
	dispute resolution Option	W1: Dispute resolution procedure
	and secondary Options	
		X1: Price adjustment for inflation
		X2: Changes in the law
		X17: Low service damages
		X18: Limitation of liability
		X19: Task Order
		Z: Additional conditions of contract
	of the NEC3 Term Service Contract April 2013 ² (TSC3)	
10.1	The <i>Employer</i> is (name):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state-owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	011 803 3008
	Fax No.	086 539 1902
10.1	The <i>Service Manager</i> is (name):	██████████
	Address	██
	Tel	██████████
	Fax	██████████
	e-mail	mkoenig@eskom.co.za
11.2(2)	The Affected Property is	Grootvlei Power Station

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required

11.2(13)	The <i>service</i> is	Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station.
11.2(14)	The following matters will be included in the Risk Register	Lead time of ordering new spares required, that might impact the delivery date.
11.2(15)	The Service Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa
13.1	The <i>language of this contract</i> is	English
13.3	The <i>period for reply</i> is	3 working days for normal conditions and 24hrs for emergencies
2	The Contractor's main responsibilities	Data required by this section of the core clauses is also provided by the Contractor in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data
21.1	The Contractor submits a first plan for acceptance within	1 week of the Contract Date
3	Time	
30.1	The <i>starting date</i> is.	
30.1	The <i>service period</i> is	60 months
4	Testing and defects	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
5	Payment	
50.1	The <i>assessment interval</i> is	Assessment will be done 1 week after the delivery of pump(s).
51.1	The <i>currency of this contract</i> is the	South African Rand
51.2	The period within which payments are made is	Payment occur 60 days after assessment date.
51.4	The <i>interest rate</i> is	the publicly quoted prime rate of interest (calculated on a 365-day year) charged by from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and
6	Compensation events	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
7	Use of Equipment Plant and	There is no reference to Contract Data in this

Materials		section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	None
9	Termination	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data. In addition to the termination clause: The <i>Employer</i> will review the contract as and when (in accordance with the business needs) required and reserve the right to reduce the number of people or to terminate the contract if the service is no longer required. The <i>Employer</i> reserves the right to terminate the contract when Grootvlei Power station stop operating before the contract expires. The <i>Employer</i> reserves the right to terminate the contract when the contract value is exhausted or finished before the end of the contract period.
10	Data for main Option clause	
A	Priced contract with price list	
20.5	The <i>Contractor</i> prepares forecasts of the final total of the Prices for the whole of the service at intervals no longer than	4 weeks.
11	Data for Option W1	
W1.1	The <i>Adjudicator</i>	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him. (see www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA). Address Tel No. Fax No. e-mail
W1.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the Institution of Civil Engineers (London)

(see www.ice-sa.org.za) or its successor body.

W1.4(2)	The <i>tribunal</i> is:	arbitration
W1.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.
	The place where arbitration is to be held is	South Africa
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	the Chairman for the time being or his nominee
	- if the arbitration procedure does not state who selects an arbitrator, is	of the Association of Arbitrators (Southern Africa) or its successor body.

12 Data for secondary Option clauses

X1	Price adjustment for inflation																			
X1.1	The <i>base date</i> for indices is	One month before the tender closing date																		
		(Prices will be fixed for the first 12 months of the contract and will not have CPA Attributes)																		
	The proportions used to calculate the Price Adjustment Factor are:	<table border="1"> <thead> <tr> <th>Composition</th><th>Composite size</th><th>Data Inex</th></tr> </thead> <tbody> <tr> <td>Fixed Portion</td><td>15%</td><td></td></tr> <tr> <td>Final Machined Goods</td><td>65%</td><td>Table U-A1</td></tr> <tr> <td>Transport</td><td>5%</td><td>Table L2b</td></tr> <tr> <td>Labour</td><td>15%</td><td>Table C3A</td></tr> <tr> <td>Total</td><td>100%</td><td></td></tr> </tbody> </table>	Composition	Composite size	Data Inex	Fixed Portion	15%		Final Machined Goods	65%	Table U-A1	Transport	5%	Table L2b	Labour	15%	Table C3A	Total	100%	
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Transport	5%	Table L2b																		
Labour	15%	Table C3A																		
Total	100%																			
X2	Changes in the law	There is no reference to Contract Data in this Option and terms in italics are identified elsewhere in this Contract Data.																		
X17	Low service damages																			
X17.1	The <i>service level table</i> is in	Refer to Annexure A at the bottom.																		
X18	Limitation of liability																			
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to	R0.0 (zero Rand)																		
X18.2	For any one event, the <i>Contractor's</i> liability to the <i>Employer</i> for loss of or damage to the <i>Employer's</i> property is limited to	the amount of the deductibles relevant to the event																		

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X18.3	The <i>Contractor's</i> liability for Defects due to his design of an item of Equipment is limited to	The greater of - the total of the Prices at the Contract Date and - the amounts excluded and unrecoverable from the <i>Employer's</i> insurance (other than the resulting physical damage to the <i>Employer's</i> property which is not excluded) plus the applicable deductibles
X18.4	The <i>Contractor's</i> total liability to the <i>Employer</i> , for all matters arising under or in connection with this contract, other than the excluded matters, is limited to	the total of the Prices other than for the additional excluded matters. The <i>Contractor's</i> total liability for the additional excluded matters is not limited. The additional excluded matters are amounts for which the <i>Contractor</i> is liable under this contract for - Defects due to his design, plan and specification, - Defects due to manufacture and fabrication outside the Affected Property, - loss of or damage to property (other than the <i>Employer's</i> property, Plant and Materials), - death of or injury to a person and - infringement of an intellectual property right.
X18.5	The <i>end of liability date</i> is	i) Five years after the defects date for latent defects and ii) the date on which the liability in question prescribes in accordance with the prescription Act No. 68 of 1969 (as amended or in terms of any replacement legislation for any other matter.
X19	Task Order	
X19.5	The <i>Contractor</i> submits a Task Order programme to the <i>Service Manager</i> within	14 days of receiving the Task Order
Z	The additional conditions of contract are	Z1 to Z14 always apply.

Z1 Cession delegation and assignment

- Z1.1 The *Contractor* does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Employer*.
- Z1.2 Notwithstanding the above, the *Employer* may on written notice to the *Contractor* cede and delegate its rights and obligations under this contract to any of its subsidiaries or any of its present divisions or operations which may be converted into separate legal entities as a result of the restructuring of the Electricity Supply Industry.

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required**Z2 Joint ventures**

- Z2.1 If the *Contractor* constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations then these persons or organisations are deemed to be jointly and severally liable to the *Employer* for the performance of this contract.
- Z2.2 Unless already notified to the *Employer*, the persons or organisations notify the *Service Manager* within two weeks of the Contract Date of the key person who has the authority to bind the *Contractor* on their behalf.
- Z2.3 The *Contractor* does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the *Employer* having been given to the *Contractor* in writing.

Z3 Change of Broad Based Black Economic Empowerment (B-BBEE) status

- Z3.1 Where a change in the *Contractor's* legal status, ownership or any other change to his business composition or business dealings results in a change to the *Contractor's* B-BBEE status, the *Contractor* notifies the *Employer* within seven days of the change.
- Z3.2 The *Contractor* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Service Manager* within thirty days of the notification or as otherwise instructed by the *Service Manager*.
- Z3.3 Where, as a result, the *Contractor's* B-BBEE status has decreased since the Contract Date the *Employer* may either re-negotiate this contract or alternatively, terminate the *Contractor's* obligation to Provide the Service.
- Z3.4 Failure by the *Contractor* to notify the *Employer* of a change in its B-BBEE status may constitute a reason for termination. If the *Employer* terminates in terms of this clause, the procedures on termination are P1, P2 and P4 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.

Z4 Confidentiality

- Z4.1 The *Contractor* does not disclose or make any information arising from or in connection with this contract available to Others. This undertaking does not, however, apply to information which at the time of disclosure or thereafter, without default on the part of the *Contractor*, enters the public domain or to information which was already in the possession of the *Contractor* at the time of disclosure (evidenced by written records in existence at that time). Should the *Contractor* disclose information to Others in terms of clause 25.1, the *Contractor* ensures that the provisions of this clause are complied with by the recipient.
- Z4.2 If the *Contractor* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Service Manager*.
- Z4.3 In the event that the *Contractor* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Contractor*, to the extent permitted by law prior to disclosure, notifies the *Employer* so that an appropriate protection order and/or any other action can be taken if possible, prior to any disclosure. In the event that such protective order is not, or cannot, be obtained, then the *Contractor* may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed.
- Z4.4 The taking of images (whether photographs, video footage or otherwise) of the Affected Property or any portion thereof, in the course of Providing the Service and after the end of the *service period*, requires the prior written consent of the *Service Manager*. All rights in and to all such images vests exclusively in the *Employer*.
- Z4.5 The *Contractor* ensures that all his subcontractors abide by the undertakings in this clause.

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required**Z5 Waiver and estoppel: Add to core clause 12.3:**

- Z5.1 Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the *Service Manager* or the *Adjudicator* does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing.

Z6 Health, safety and the environment: Add to core clause 27.4

- Z6.1 The *Contractor* undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the *service*. Without limitation the *Contractor*:
- accepts that the *Employer* may appoint him as the “Principal Contractor” (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) (“the Construction Regulations”) for the Affected Property;
 - warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the execution of the *service*; and
 - undertakes, in and about the execution of the *service*, to comply with the Construction Regulations and with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the *Contractor*’s direction and control, likewise observe and comply with the foregoing.
- Z6.2 The *Contractor*, in and about the execution of the *service*, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the *Contractor*’s direction and control, likewise observe and comply with the foregoing.

Z7 Provision of a Tax Invoice and interest. Add to core clause 51

- Z7.1 Within one week of receiving a payment certificate from the *Service Manager* in terms of core clause 51.1, the *Contractor* provides the *Employer* with a tax invoice in accordance with the *Employer*’s procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.
- Z7.2 If the *Contractor* does not provide a tax invoice in the form and by the time required by this contract, the time by when the *Employer* is to make a payment is extended by a period equal in time to the delayed submission of the correct tax invoice. Interest due by the *Employer* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.
- Z7.3 The *Contractor* (if registered in South Africa in terms of the companies Act) is required to comply with the requirements of the Value Added Tax Act, no 89 of 1991 (as amended) and to include the *Employer*’s VAT number 4740101508 on each invoice he submits for payment.

Z8 Notifying compensation events

- Z8.1 Delete the last paragraph of core clause 61.3 and replace with:

If the *Contractor* does not notify a compensation event within eight weeks of becoming aware of the event, he is not entitled to a change in the Prices.

Z9 Employer’s limitation of liability

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required

Z9.1 The *Employer's* liability to the *Contractor* for the *Contractor's* indirect or consequential loss is limited to R0.00 (zero Rand)

Z9.2 The *Contractor's* entitlement under the indemnity in 82.1 is provided for in 60.1(12) and the *Employer's* liability under the indemnity is limited to compensation as provided for in core clause 63 and X19.11 if Option X19 Task Order applies to this contract.

Z10 Termination: Add to core clause 91.1, at the second main bullet point, fourth sub-bullet point, after the words "against it":

Z10.1 or had a business rescue order granted against it.

Z11 Ethics

For the purposes of this Z-clause, the following definitions apply:

Affected Party means, as the context requires, any party, irrespective of whether it is the *Contractor* or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,

Coercive Action means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,

Collusive Action means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,

Committing Party means, as the context requires, the *Contractor*, or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors or the Subcontractor's employees,

Corrupt Action means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,

Fraudulent Action means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,

Obstructive Action means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and

Prohibited Action means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

Z11.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.

Z11.2 The *Employer* may terminate the *Contractor's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Contractor* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Employer* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the *Employer* can terminate the *Contractor's* obligation to Provide the Services for this reason.

Z11.3 If the *Employer* terminates the *Contractor's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.

Z11.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Employer* does not have a contractual bond with the Committing Party, the *Contractor* ensures that the Committing Party co-operates fully with an investigation.

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required**Z12 Insurance****Z 12 .1 Replace core clause 83 with the following:****Insurance cover 83**

- 83.1 When requested by a Party, the other Party provides certificates from his insurer or broker stating that the insurances required by this contract are in force.
- 83.2 The *Contractor* provides the insurances stated in the Insurance Table A from the *starting date* until the earlier of Completion and the date of the termination certificate.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minimum limit of indemnity
Loss of or damage caused by the <i>Contractor</i> to the <i>Employer's</i> property	The replacement cost where not covered by the <i>Employer's</i> insurance. The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
Loss of or damage to Plant and Materials	The replacement cost where not covered by the <i>Employer's</i> insurance. The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
Loss of or damage to Equipment	The replacement cost where not covered by the <i>Employer's</i> insurance. The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
The <i>Contractor's</i> liability for loss of or damage to property (except the <i>Employer's</i> property, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i>) arising from or in connection with the <i>Contractor's</i> Providing the Service	<u>Loss of or damage to property</u> The replacement cost <u>Bodily injury to or death of a person</u> The amount required by the applicable law.
Liability for death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with this contract	The amount required by the applicable law

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required**Z 12.2 Replace core clause 86 with the following:****Insurance
by the
Employer**

86.1 The *Employer* provides the insurances stated in the Insurance Table B

INSURANCE TABLE B

Insurance against or name of policy	Minimum amount of cover or minimum limit of indemnity
Assets All Risk	Per the insurance policy document
Contract Works insurance	Per the insurance policy document
Environmental Liability	Per the insurance policy document
General and Public Liability	Per the insurance policy document
Transportation (Marine)	Per the insurance policy document
Motor Fleet and Mobile Plant	Per the insurance policy document
Terrorism	Per the insurance policy document
Cyber Liability	Per the insurance policy document
Nuclear Material Damage and Business Interruption	Per the insurance policy document
Nuclear Material Damage Terrorism	Per the insurance policy document

Z13 Nuclear Liability

- Z13.1 The *Employer* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation, as designated by the National Nuclear Regulator of the Republic of South Africa, and is the holder of a nuclear licence in respect of the KNPS.
- Z13.2 The *Employer* is solely responsible for and indemnifies the *Contractor* or any other person against any and all liabilities which the *Contractor* or any person may incur arising out of or resulting from nuclear damage, as defined in Act 47 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Contractor* or any other person or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z13.3 Subject to clause Z13.4 below, the *Employer* waives all rights of recourse, arising from the aforesaid, save to the extent that any claims arise or liability is incurred due or attributable to the unlawful intent of the *Contractor* or any other person, or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z13.4 The *Employer* does not waive its rights provided for in section 30 (7) of Act 47 of 1999, or any replacement section dealing with the same subject matter.
- Z13.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is

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decommissioned.

Z14 Asbestos

For the purposes of this Z-clause, the following definitions apply:

AAIA	means approved asbestos inspection authority.
ACM	means asbestos containing materials.
AL	means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4 hour period. The value at which proactive actions is required in order to control asbestos exposure to prevent exceeding the OEL.
Ambient Air	means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
Compliance Monitoring	means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>Employer's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.
SANAS	means the South African National Accreditation System.
TWA	means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

Z14.1 The *Employer* ensures that the Ambient Air in the area where the *Contractor* will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) ("Asbestos Regulations"). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.

Z14.2 Upon written request by the *Contractor*, the *Employer* certifies that these conditions prevail. All measurements and reporting are effected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited and Department of Employment and Labour approved AAIA. The *Contractor* may perform Parallel Measurements and related control measures at the *Contractor's* expense. For the purposes of compliance the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z14.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.

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- Z14.3 The *Employer* manages asbestos and ACM according to the Standard.
- Z14.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented and relevant air monitoring conducted in order to declare the area safe.
- Z14.5 The *Contractor's* personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.
- Z14.6 The *Contractor* continues to Provide the Services, without additional control measures presented, on presentation of Safe Levels. The contractually agreed dates to Provide the Services, including the Completion Date, are adjusted accordingly. The contractually agreed dates are extended by the notification periods required by regulations 3 and 21 of the Asbestos Regulations, 2001.
- Z14.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the *Employer* at the *Employer's* expense, and conducted in line with South African legislation.

Annexure A: X17.1 LOW SERVICE DAMAGES TABLE:

When the Contractor does not meet the targets for the criteria below, the percentage below will apply as a penalty on the issued purchase order value.

Criteria	Target	Value of low performance	Limit of low performance
Delivery date for supply of Water pumps	Each order will be confirmed with estimated delivery date	1% per month of the total value of Task order.	Limited to 5% of the total value of Task order – losses to be proved
Delivery date for refurbishment of Water pumps.	Each order will be confirmed with estimated delivery date	1% per month of the total value of Task order	Limited to 5% of the total value of Task order – losses to be proved
Poor workman (poor quality) failure	EnFlo Tech to assess failure & determine, confirm if failure is based on poor workmanship/quality (4 weeks)	1% per month of the total value of Task order.	Limited to 5% of the total value of Task order – losses to be proved.
SHEQ non-conformances reports	For each non-conformances issued	1% per month of the total value of Task order for 1-2 non-conformances	5% per month of the total value of Task order for above 3 non-conformances

C1.2 Contract Data

Part two - Data provided by the Contractor

Completion of the data in full, according to Options chosen, is essential to create a complete contract.

Clause	Statement	Data
10.1	The <i>Contractor</i> is (Name): Address Tel No. Fax No.	
11.2(8)	The <i>direct fee percentage</i> is The <i>subcontracted fee percentage</i> is	%
11.2(14)	The following matters will be included in the Risk Register	
11.2(15)	The Service Information for the <i>Contractor's</i> plan is in:	
21.1	The plan identified in the Contract Data is contained in:	
24.1	The key people are: 1 Name: Job: Responsibilities: Qualifications: Experience: 2 Name: Job: Responsibilities: Qualifications: Experience:	
CV's (and further key person's data including CVs) are in _____.		
A	Priced contract with price list	
11.2(12)	The <i>price list</i> is in	C 2.2 Price List

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11.2(19)	The tendered total of the Prices is	R	R ex vat
C	Target contract with price list		
11.2(12)	The <i>price list</i> is in	C 2.2 Price List	
11.2(20)	The tendered total of the Prices is	R	R ex vat
E	Cost reimbursable contract		
11.2(12)	The <i>price list</i> is in		

PART 2: PRICING DATA

TSC3 Option A

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option A	2
C2.2	The <i>price list</i>	2

C2.1 Pricing assumptions: Option A

How work is priced and assessed for payment

Clause 11 in NEC3 Term Service Contract (TSC3) core clauses and Option A states:

Identified and defined terms	11	
	11.2	(12) The Price List is the <i>price list</i> unless later changed in accordance with this contract.
		(17) The Price for Services Provided to Date is the total of - the Price for each lump sum item in the Price List which the <i>Contractor</i> has completed and - where a quantity is stated for an item in the Price List, an amount calculated by multiplying the quantity which the <i>Contractor</i> has completed by the rate.
		(19) The Prices are the amounts stated in the Price column of the Price List. Where a quantity is stated for an item in the Price List, the Price is calculated by multiplying the quantity by the rate.

This confirms that Option A is a priced contract where the Prices are derived from a list of items of service which can be priced as lump sums or as expected quantities of service multiplied by a rate or a mix of both.

Function of the Price List

Clause 54.1 in Option A states: "Information in the Price List is not Service Information". This confirms that instructions to do work or how it is to be done are not included in the Price List but in the Service Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Service in accordance with the Service Information". Hence the *Contractor* does **not** Provide the Service in accordance with the Price List. The Price List is only a pricing document.

Link to the *Contractor's* plan

Clause 21.4 states "The *Contractor* provides information which shows how each item description on the Price List relates to the operations on each plan which he submits for acceptance". Hence when compiling the *price list*, the tendering contractor needs to develop his first clause 21.2 plan in such a way that operations shown on it can be priced in the *price list* and result in a satisfactory cash flow in terms of clause 11.2(17).

Preparing the *price list*

Before preparing the *price list*, both the *Employer* and tendering contractors should read the TSC3 Guidance Notes pages 14 and 15. In an Option A contract, either Party may have entered items into the *price list* either as a process of offer and acceptance (tendering) or by negotiation depending on the nature of the *service* to be provided. Alternatively the *Employer*, in his Instructions to Tenderers or in a Tender Schedule, may have listed some items that he requires the *Contractor* to include in the *price list* to be prepared and priced by him.

It is assumed that in preparing or finalising the *price list* the *Contractor*:

- Has taken account of the guidance given in the TSC3 Guidance Notes relevant to Option A;
- Understands the function of the Price List and how work is priced and paid for;

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- Is aware of the need to link operations shown in his plan to items shown in the Price List;
- Has listed and priced items in the *price list* which are inclusive of everything necessary and incidental to Providing the Service in accordance with the Service Information, as it was at the time of tender, as well as correct any Defects not caused by an *Employer's* risk;
- Has priced work he decides not to show as a separate item within the Prices or rates of other listed items in order to fulfil the obligation to complete the *service* for the tendered total of the Prices.
- Understands there is no adjustment to items priced as lump sums if the amount, or quantity, of work within that item later turns out to be different to that which the *Contractor* estimated at time of tender. The only basis for a change to the (lump sum) Prices is as a result of a compensation event.

Format of the *price list*

(From the example given in an Appendix within the TSC3 Guidance Notes)

Entries in the first four columns in the *price list* in section C2.2 are made either by the *Employer* or the tendering contractor.

If the *Contractor* is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tendering contractor enters the amount in the Price column only, the Unit, Expected Quantity and Rate columns being left blank.

If the *Contractor* is to be paid an amount for an item of work which is the rate for the work multiplied by the quantity completed, the tendering contractor enters the rate which is then multiplied by the Expected Quantity to produce the Price, which is also entered.

If the *Contractor* is to be paid a Price for an item proportional to the length of time for which a service is provided, a unit of time is stated in the Unit column and the expected length of time (as a quantity of the stated units of time) is stated in the Expected Quantity column.

C2.2 the *price list*

Services

Item nr	Description	Unit	Expected Quantity	Rate	Price
1	Breaker				
1.1	Inspection				
	•Strip and assess •Provide assessment report •Provide a quote	each	100		
1.2	Transportation				
	•Collect the breaker for strip and assessment from Grootvlei Power Station to contractor workshop. •Deliver the breaker at Grootvlei Power Station once repaired/refurbished.	each	36		
1.3	Refurbish				
	•Repair the breaker as per the assessment report	each	50		
1.4	Test (Commissioning at Contractor workshop)				
	Perform and provide signed test certificates and check sheets for the following; •Functional checks -Operate mechanism (open and close), racking in and out operation •Verify interlocks •Speed checks •Voltage pickup on trip and close coils. •Breaker trip range •Breaker main contact resistance •Pressure Test	Each	50		
1.5	Supply				
	•ACB breaker and its components	each	100		
1.6	Retrofit				
	•Supply equivalent ACB •Supply new drawings for commissioning •Test and commission the new ACB (SAT)	each	10		
2	Breaker – Shutters and Spouts				
2.1	Replace/supply				
	•Replace the shutters or spouts	each	15		
3	Protection (Relays)				
3.1	Inspection				
	•Assessment of protection relays •Testing of relays •Strip and assess •Provide assessment report •Provide a quote	each	30		
3.2	Transportation				
	•Collect the relay for strip and assessment from Grootvlei Power Station to supplier workshop •Deliver the relay at Grootvlei Power Station once repaired	each	15		
3.3	Refurbish				
	•Refurbish according to the assessment report	Each	15		
3.4	Commission				
	•Configuration •Commission the relay	Each	15		

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3.5	Supply				
	•Supply relays (specified under critical spares)	Each			
3.6	Retrofit				
	•Supply equivalent Relay •Supply new drawings for commissioning •Test and commission the new Protection Relay (SAT)	each	10		
4	Busbar earthing switch				
4.1	Inspect				
	•Inspect contact blades for wear, conductor condition lubricate moving parts.	each	15		
5	Panel doors				
5.1	Repair				
	• Provide report and warranty	each	15		
5.2	Replace				
	•Replace	each	15		
6	Inspection glass				
6.1	Replace				
	•Replace	each	15		
7	Fuses/ contactors				
7.1	Replace				
	•Replace	each	15		
8	Training				
8.1	Training of employees				
	LV Switchgear Training	each	40		

The total of the Service Prices

R

Material

ITEM NR	MATERIAL NR	DESCRIPTION	UNIT	EXPECTED QUANTITY	RATE	PRICE
1	0004511	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 30 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: GLASS; REFERENCE NO: MD16A		500		
2	0004513	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 415 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 29 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: GLASS; REFERENCE NO: MD32; HRC		500		
3	0004520	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X		500		

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		LG 50 MM; TYPE: BOTTLE SLO BLO INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB271; DIAZED, TYPE TDZ, TIME DELAY, MARKING GL/GG				
4	0004522	HOLDER, FUSE: CURRENT: 30 A; FUSE SIZE: WD 24 X LG 44 X HT 27 MM; MOUNT: BASE; SUPPL P/N: F246; REYROLLE		500		
5	0004526	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 50 MM; TYPE: BOTTLE TIME DELAY SLO BLO INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB251; TDZ; MARKING GL/GG, DIAZED		700		
6	0004646	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: SS32~FUSE,CARTD;32 A,240 VAC,CERAMIC		700		
7	0004649	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 415 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 29 MM; TYPE: PULLCAP; CASE MATERIAL: GLASS; MODEL NO: MD; REFERENCE NO: F316; CURRENT LIMITING METAL CAP		2500		
8	0014987	LIGHT, INDICATING: TYPE: PILOT; POTENTIAL: 220 VAC/DC; COLOR: AMBER; TERMINAL: SCREW; SUPPL P/N: MRE22; MINIATURE INCANDESCENT, WITH CAPTIVE CABLE CLAMP		100		
9	0036106	FUSE, CARTRIDGE: TYPE: TRIGGER INDICATOR		50		
10	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		200		
11	0117214	COVER: TYPE: 15 A FUSE; COLOR: BLUE; MANUF P/N: F210		50		
12	0117215	COVER: TYPE: 30 A FUSE; COLOR: BLACK; SUPPL P/N: F268		50		
13	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		2500		
14	0117222	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 415 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 12.5 X LG 29 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; TYPE MD OR APPROVED EQUIVALENT		700		
15	0117232	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 550 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88-1967; SUPPL P/N: TIS63; CLASS Q1		200		
16	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;		100		

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		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				
17	0117244	HOLDER, FUSE: POTENTIAL: 250 V; CURRENT: 15 A; FUSE SIZE: DIA 17 X LG 50 MM; FUSE STYLE: BLADE; MOUNT: PANEL; REFERENCE NO: SSH		200		
18	0117245	HOLDER, FUSE: POTENTIAL: 600 VAC; CURRENT: 20 A; FUSE SIZE: DIA 18 X LG 56 MM; FUSE STYLE: BLADE; MOUNT: PANEL; REFERENCE NO: NSP BLACK; COMPLETE WITH BASE		200		
19	0117247	HOLDER, FUSE: CURRENT: 15 A; COMPLETE WITH ONE BASE REFERENCE NO. F246, ONE CARRIER REFERENCE NO. F195 AND ON COVER REFERENCE NO. F210; REY F376 GREEN		200		
20	0117249	HOLDER, FUSE: POTENTIAL: 250 KV; CURRENT: 15 A; FUSE SIZE: WD 20 X LG 45.5 X HT 19 MM; FUSE STYLE: CARTRIDGE GLASS; MOUNT: INLINE; KNIFE BLADE		200		
21	0117250	HOLDER, FUSE: CURRENT: 30 A; REFERENCE NO: F194; WHITE		200		
22	0117251	HOLDER, FUSE: POTENTIAL: 600 VAC; CURRENT: 20 A; FUSE SIZE: DIA 17 X LG 55 MM; FUSE STYLE: BLADE; MOUNT: PANEL; REFERENCE NO: NS- H; COMPLETE		200		
23	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		1500		
24	0117266	HOLDER, FUSE: POTENTIAL: 500 V; CURRENT: 30 A; FUSE SIZE: WD 10 X LG 85 MM; FUSE STYLE: SCREW CLAMP; CONNECTION TYPE: SCREW; TYPE: SM32P		200		
25	0117272	FUSE, CARTRIDGE: CURRENT: 0.25 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS		100		
26	0117275	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; SUPPL P/N: FSF034-1743; MODEL NO: 19340		100		
27	0117276	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS		100		
28	0117313	FUSE, INCLOSED LINK: TYPE: AUTO; CURRENT: 5 A; DIMENSIONS: LG 25 MM		200		
29	0117333	HOLDER, FUSE: CURRENT: 400 A; RS 400 H GEC JW3MS		100		
30	0117334	HOLDER, FUSE: CURRENT: 600 A; MANUF P/N: JW4MS; REFERENCE NO: 30239; BASES PORCELAIN		100		
31	0117342	HOLDER, FUSE: POTENTIAL: 415 KV; CURRENT: 60 A; FUSE SIZE: WD 33 X LG 83 X HT 33 MM; FUSE STYLE: BLADE; MOUNT: INLINE; REFERENCE NO: F197; FERRULE: BLACK		100		
32	0117378	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 550 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: WD 40 X LG 110 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TFP200		250		
33	0117576	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 84 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: TIA2AX		200		
34	0117628	FUSE, CARTRIDGE: CURRENT: 0.125 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5		100		

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		X LG 20 MM; TYPE: MINIATURE, FAST BLOW; CASE MATERIAL: GLASS; TYPE CEB				
35	0118127	HOLDER, FUSE: POTENTIAL: 660 VAC; CURRENT: 63 A; FUSE SIZE: DIA 20 X LG 95 MM; FUSE STYLE: SCREW CLAMP; MOUNT: PANEL; REFERENCE NO: RS60H; 60 AMP		250		
36	0118128	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 220 VAC; REFERENCE NO: NSH15; CARRIERS; BASE 15A RS15H BLACK		500		
37	0118134	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 415 V; DIMENSIONS: DIA 14 X LG 60 MM; SUPPL P/N: SP 1749; 3NX1010 VDE 0660; PULLERS		100		
38	0118145	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: CERAMIC; NORMAL INSTANTANEOUS OPERATING, ONE TIME, NON INDICATING		250		
39	0118151	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 50 MM; TYPE: FAST BLOW; CASE MATERIAL: CERAMIC; REFERENCE NO: 5SA115A; DIAZED, 15 AMP		200		
40	0118228	HOLDER, FUSE: POTENTIAL: 500 KV; CURRENT: 30 A; FUSE SIZE: WD 31.75 X LG 98.42 X HT 65.08 MM; CONNECTION TYPE: FRONT CONNECTED; MANUF P/N: SM30H; BAKELITE BODY		300		
41	0118229	HOLDER, FUSE: POTENTIAL: 660 VAC; CURRENT: 100 A; FUSE SIZE: DIA 20 X LG 120 MM; FUSE STYLE: SCREW CLAMP; MOUNT: PANEL; REFERENCE NO: SM60H; WITH BASE; SIDE ENTRY		200		
42	0118230	HOLDER, FUSE: CURRENT: 200 A; MANUF P/N: X5756; REFERENCE NO: TYPE SCG200; HANDLES		250		
43	0118248	HOLDER, FUSE: POTENTIAL: 660 V; CURRENT: 32 A; FUSE SIZE: WD 24 X LG 96 MM; FUSE STYLE: CERAMIC; MOUNT: PANEL; REFERENCE NO: RS32H; FRONT CONNECTED; FOR USE WITH TIA FUSE LINKS; GEC BRAND		250		
44	0118251	HOLDER, FUSE: POTENTIAL: 660 VAC; CURRENT: 63 A; FUSE SIZE: WD 27 X LG 102 MM; FUSE STYLE: CERAMIC; MOUNT: PANEL; REFERENCE NO: RS63P; BACK CONNECTION; FOR USE WITH TIS FUSE LINK; BLACK; GEC BRAND		250		
45	0118252	HOLDER, FUSE: POTENTIAL: 660 V; CURRENT: 100 A; FUSE SIZE: DIA 32 X LG 110 MM; FUSE STYLE: SCREW CLAMP; MOUNT: PANEL; REFERENCE NO: RS100PH		250		
46	0118257	FUSE, CARTRIDGE: CURRENT: 1 A; POTENTIAL: 440 V; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FB; CASE MATERIAL: GLASS		150		
47	0118277	FUSE, CARTRIDGE: CURRENT: 5 A; POTENTIAL: 440 V; DIMENSIONS: DIA 12 X LG 34 MM; TYPE: HRC; MANUF P/N: 059-0144		150		
48	0118295	HOLDER, FUSE: POTENTIAL: 500 V; CURRENT: 630 A; FUSE SIZE: WD 55 X LG 240 MM; FUSE STYLE: BLADE; MOUNT: PANEL; CONNECTION TYPE: SCREW TERMINAL; REFERENCE NO: 3NH7420; CERAMIC BODY, WHITE, SILVER PLATED TERMINALS, FRONT CONNECTED, SINGLE POLE		150		
49	0118331	FUSE: CURRENT: 25 A; POTENTIAL: 300 V; REFERENCE NO: GS300/25		150		
50	0118397	HOLDER, FUSE: CURRENT: 60 A; MANUF P/N: MF60; FITTINGS COMPLETE WITH LINK TYPE MF 60, FUSES SPARES FOR COAL TIPPER		150		
51	0119200	FUSE, CARTRIDGE: CURRENT: 0.5 A; DIMENSIONS: DIA 6 X LG 20 MM; CASE MATERIAL: GLASS		150		

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52	0119250	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 2 A; POLE: 1; TYPE: MINIATURE AUTOMATIC; MANUF P/N: CF1G3		150		
53	0119252	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 10 A; POLE: 1; TYPE: MINIATURE HYDRAULIC MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: QA-1 10A		150		
54	0119256	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 30 A; POLE: 1; TYPE: MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: SA1G3		150		
55	0119261	BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 5 A; POLE: 2; TYPE: MINIATURE MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: CF2G3		150		
56	0119263	BREAKER, CIRCUIT: POTENTIAL: 250/440 VAC; CURRENT: 10 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: CF2-G3; COMPLETE WITH BRACKETS		150		
57	0119271	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 5 A; MANUF P/N: CF2H3		150		
58	0119274	BREAKER, CIRCUIT: POTENTIAL: 250 VAC; CURRENT: 30 A; POLE: 2; TYPE: MINIATURE HYDRAULIC MAGNETIC; INTERRUPT CAPACITY: 1.5 KA; SUPPL P/N: CF2-H3; AUTO		150		
59	0119765	BREAKER, CIRCUIT: POTENTIAL: 440 V; CURRENT: 8 A; TYPE: MINIATURE; INTERRUPT CAPACITY: 5 KA; DRAWING NO: D-DT-15207 LEVEL 29; REFERENCE NO: EQR3080; TAP CHANGE CONTROL, 1/5 A CT; TO BE APPLIED WITH 5TM-3100 SCHEME SHELL AND PROTECTION, REQUIRES 5JB-3200; COMPLETE WITH CLIPS		150		
60	0119772	BREAKER, CIRCUIT: POTENTIAL: 440 V; CURRENT: 100 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 5 KA; MANUF P/N: CF2G3; COMPLETE WITH BRACKETS WITHOUT COVERS		150		
61	0119773	BREAKER, CIRCUIT: POTENTIAL: 250/440 V; CURRENT: 60 A; POLE: 2; MANUF P/N: CF2G3; REFERENCE NO: CD2-63		150		
62	0119804	BREAKER, CIRCUIT: POTENTIAL: 440 V; CURRENT: 80 A; SUPPL P/N: QC2080		150		
63	0120132	BREAKER, CIRCUIT: POTENTIAL: 600 VAC; CURRENT: 60 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: EQ5		150		
64	0120207	SWITCH, DISCONNECT: TYPE: ISOLATOR; POTENTIAL: 250 V; CURRENT: 15 A; ACTION: SPST; OPERATED: LEVER; MOUNT: WALL; FLUSH; 1W; 1 WAY; WITH COVER AND SCREWS		150		
65	0120228	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 550 VAC; CURRENT: 32 A; ACTION: 3PST; OPERATED: GANG; MOUNT: SURFACE; REFERENCE NO: 330KNXCF; 3PH 15 HP, MEMREX-EXEL, STEEL CASE WITH FRONT HANDLE, HRC FUSES FITTED, TPN, THREE POLE, ONLY MEM BRAND ACCEPTABLE		150		
66	0121274	SWITCH, SELECTOR: POSITION: 3; APPLICATION: DEFY STOVE 18088		150		
67	0121794	SWITCH, PUSH PULL: TYPE: CONVEYOR BELT EMERGENCY TRIP; POTENTIAL: 600 V; APPLICATION: COAL HANDLING PLANT; MODEL NO: AFU 0333-10; FOR CROUSE HINDS SIGNAL ENCLOSURE		150		
68	0121795	SWITCH, PUSHBUTTON: SIZE: WD 82 X LG 110 X HT 65 MM; HOUSING: CI; BOX		150		
69	0121857	SWITCH, SELECTOR: POTENTIAL: 88 KV; CURRENT: 800 A; TYPE: ROTARY, AUXILIARY; LEL		150		

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70	0121888	SWITCH, PUSHBUTTON: ELECTRICAL RATING: 250 V 16 A; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; MOUNT: WALL FLUSH; REFERENCE NO: 1799; LITEMASTER; ONE LEVER; BELL PUSH; SIZE: 100MM X 100MM; COMPLETE WITH COVERS		150		
71	0121897	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 35-375 PSI; POTENTIAL: 600 VAC; CURRENT: 5 A; ACTION: SPDT; CONNECTION: 1/4 IN-FNPT; CAT NO: ALLEN BRADLY 836-C9A SERIES A; FOR USE WITH HV YARD; 400KV DELLE ALSTHOM BREAKERS		150		
72	0121931	SWITCH, SELECTOR: POTENTIAL: 600 V; CURRENT: 12 A; TYPE: ROTARY, LOCAL/REMOTE; APPLICATION: BOILER PRECIPITATOR; SUPPL P/N: C17A221; C17 A221		150		
73	0121936	SWITCH, SELECTOR: POTENTIAL: 600 VAC; TYPE: PUSH; CAT NO: T404 LIST NO 90087; 10250T1 LIST NO 90001; T-LB LIST NO 900 95; REFERENCE NO: DT-S-AK; SELECTOR ONE-HOLE MOUNTING COMPRISING OF ONE LEVER AND ONE CONTACT BLOCK		150		
74	0122021	SWITCH: TYPE: FUNCTION; APPLICATION: TRANSMITTER PH 2836, 2838; SUPPL P/N: 9801610; HP		150		
75	0122024	SWITCH: POTENTIAL: 600 V; CURRENT: 20 A; SUPPL P/N: AIC 432; B16		150		
76	0122025	SWITCH: POTENTIAL: 600 V; CURRENT: 20 A; APPLICATION: PRECIPITATOR; MANUF P/N: A214; SUPPL P/N: C26; B16		150		
77	0122026	SWITCH: POTENTIAL: 600 V; MOUNT: PANEL; APPLICATION: CHANGE OVER PANEL ELECTROSTATIC PRECIPITATOR; REFERENCE NO: C26/A222; B16; WITH STANDARD ENGRAVING		150		
78	0122027	SWITCH, SELECTOR: POSITION: 3; POTENTIAL: 600 V; CURRENT: 16 A; CONTACT CONFIGURATION: REMOTE ON/OFF; TYPE: ROTARY; SUPPL P/N: B17A 212E; CSA C14 B218; 3 PHASE		150		
79	0122028	SWITCH, SELECTOR: TYPE: AMMETER; APPLICATION: ELECTROSTATIC PRECIPITATORS BOILER 5; SPECIFICATION: CEE 24; VDE 0630		150		
80	0122032	SWITCH, PRESSURE: MODEL NO: DIHA150SS		150		
81	0122045	SWITCH: TYPE: ARROW; POTENTIAL: 250 V; CURRENT: 1 A; REFERENCE NO: 81258-33; SERIES S1		150		
82	0122047	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; MANUF P/N: PS/D/LB/998		150		
83	0122048	SWITCH, PRESSURE: TYPE: SQUARED DIFF; MODEL NO: ACW.25; SMITHS DP CLASS 9012		150		
84	0122069	SWITCH: TYPE: CONTROL; SUPPL P/N: GPE2AH- 6120298; GPE2AH6120298		150		
85	0122112	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; DRAWING NO: C6405806 REV 1		150		
86	0122113	SWITCH, PRESSURE: TYPE: OIL; REFERENCE NO: XLE-NL2; SPARES ITEM NO. 504 SIZE 16 X 10 X 7 XLE- NL2 GUAGE BOARD SECTION 15		150		
87	0122382	PUSH BUTTON: TYPE: SWITCH; SUPPL P/N: ZB2-BA4; MATERIAL PLASTIC		150		
88	0123637	SWITCH, TOGGLE: CURRENT: 15 A; SUPPL P/N: CL15A DBL 2; 1 WAY 2 LEVER INDUSTRIAL		150		
89	0123638	SWITCH, TOGGLE: POTENTIAL: 250 V; CURRENT: 15 A; REFERENCE NO: 6171; 2 WAY 1 LEVER INDUSTRIAL		150		

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90	0123679	SWITCH, SELECTOR: POTENTIAL: 500 V; CURRENT: 63 A; TYPE: 3P; MODEL NO: DYSELEC 63 4513; REL/PANL	150		
91	0123685	SWITCH, TOGGLE: POTENTIAL: 230 V; CURRENT: 15 A; WITH COVER PLATES; TYPE: 2 WAY, 2 GANG	150		
92	0125420	RELAY, OVERLOAD: TRIP RANGE: 0.4-0.63 A; MANUF P/N: RA1-BB	150		
93	0125421	RELAY, OVERLOAD: TRIP RANGE: 0.63-1 A; MANUF P/N: RA1-BB	150		
94	0125552	RELAY, OVERLOAD: TRIP RANGE: 2.5-4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: 3UA5000-1E; RATED VOLTAGE 380VAC	150		
95	0125603	CONTACTOR: TYPE: RELAY; COIL VOLTAGE: 240 VAC; CURRENT: 20 A; SUPPL P/N: K15BN-EP	150		
96	0127060	RELAY, CONTROL: SUPPL P/N: HC 40404AZ	150		
97	0127068	RELAY: TYPE: VOLTAGE; SUPPL P/N: RBG 100Y 8800OH	150		
98	0127540	RELAY, CONTROL: INSTR PANEL DEM	150		
99	0127551	RELAY, OVERLOAD: TRIP RANGE: 4-6 A; 500 V; O F HEATER	150		
100	0128415	RELAY: TYPE: PHASE FAILURE; COIL VOLTAGE: 380 VAC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; REFERENCE NO: SP430	150		
101	0135602	BREAKER, CIRCUIT: LENGTH: 950 MM; REFERENCE NO: PO-10633; PORC DELLE	150		
102	0142586	CONTACT, AUXILIARY: POTENTIAL: 600 V; SUPPL P/N: C320K	150		
103	0145670	LIGHT, INDICATING: POTENTIAL: 48 V; WITHOUT LENS	150		
104	0145676	LIGHT, INDICATING: TYPE: PILOT; POTENTIAL: 220 V; COLOR: WHITE; TERMINAL: SCREW; REFERENCE NO: SGF20; SUBMINIATURE NEON, COLD CATHODE TUBE, BAKELITE	150		
105	0145696	LIGHT, INDICATING: POTENTIAL: 250 V; COLOR: RED; REFERENCE NO: CGF20; ROUND BAKELITE WITH BEZEL PILOT	150		
106	0145709	LIGHT, INDICATING: TYPE: NEON; POTENTIAL: 120 V; COLOR: RED	150		
107	0146609	LIGHT, INDICATING: POTENTIAL: 120 V; POWER: 3 W; COLOR: CLEAR; 20MA CL 10X28 E10 BASE (E/O)	150		
108	0146673	LIGHT, INDICATING: POTENTIAL: 250/260 V; POWER: 7 W; REFERENCE NO: E12; 45MM	150		
109	0147934	METER, ELECTRICAL: TYPE: VOLT; RANGE: 0-500 V; READOUT: ANALOG; STYLE: PANEL MOUNT FLUSH; FACE SIZE: SQ 74 MM; ATW TYPE VF96	150		
110	0147980	METER, ELECTRICAL: TYPE: VOLT; RANGE: 0-250 V; READOUT: ANALOG; STYLE: SQ; FLUSH PANEL MOUNT; REFERENCE NO: FV-A083; 50HZ	150		
111	0149176	METER, ELECTRICAL: TYPE: AMMETER; RANGE: 0-40 A AC; OPERATION: MOVING IRON; MANUF P/N: CI-83LSE012; TYPE 2E 240 DEG 1A FSD 40-1A CURRENT TRANSFER RATIO	150		
112	0215447	RELAY, OVERLOAD: TRIP RANGE: 1-1.5 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1G113704; ADAPTER MOUNT	150		

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113	0215448	RELAY, OVERLOAD: TRIP RANGE: 8-12 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1N113710; ADAPTER MOUNT		150		
114	0215449	RELAY, OVERLOAD: TRIP RANGE: 5.5-8.5 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1M113709; ADAPTER MOUNT		150		
115	0215450	RELAY, OVERLOAD: TRIP RANGE: 1.8-2.7 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1J113706; ADAPTER MOUNT		150		
116	0215451	RELAY, OVERLOAD: TRIP RANGE: 21-26 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1U113714; ADAPTER MOUNT		150		
117	0215452	RELAY, OVERLOAD: TRIP RANGE: 10-16 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1P113711; ADAPTER MOUNT		150		
118	0215465	RELAY, OVERLOAD: TRIP RANGE: 1.3-1.9 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1H113705; ADAPTER MOUNT		150		
119	0215471	RELAY, OVERLOAD: TRIP RANGE: 0.65-1.1 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1F113703; ADAPTER MOUNT		150		
120	0215472	RELAY, OVERLOAD: TRIP RANGE: 0.4-0.65 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1D113702; ADAPTER		150		
121	0215473	RELAY, OVERLOAD: TRIP RANGE: 4-6.3 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1L113708; ADAPTER		150		
122	0215474	RELAY, OVERLOAD: TRIP RANGE: 2.5-4 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1K113707; ADAPTER		150		
123	0215475	RELAY, OVERLOAD: TRIP RANGE: 54-65 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT2H113723; ADAPTER		150		
124	0215476	RELAY, OVERLOAD: TRIP RANGE: 42-55 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE		150		

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		RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT2G113722; ADAPTER				
125	0215477	RELAY, OVERLOAD: TRIP RANGE: 25-32 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1V113715; ADAPTER		150		
126	0215478	RELAY, OVERLOAD: TRIP RANGE: 14.5-18 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1S113712; ADAPTER		150		
127	0215479	RELAY, OVERLOAD: TRIP RANGE: 17.5-22 A; TYPE: THERMAL MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: CU; SUPPL P/N: RT1T113713; ADAPTER		150		
128	0218485	TRANSDUCER: TYPE: MACRO DISPLACEMENT; OUTPUT: 4-20 MA; POWER SOURCE: 24 V DC; OEM P/N: 7160-250, OEM: GE STEAM POWER SERVICE; 5160-338, OEM: GE STEAM POWER SERVICE; 5160-511, OEM: GE STEAM POWER SERVICE; 7360-250, OEM: GE STEAM POWER SERVICE; 7320-045, OEM: GE STEAM POWER SERVICE; SUPPL P/N: DI 510; DRAWING NO: A42.71600-0164; REFERENCE NO: SZ50007091; RANGE 100 MM		150		
129	0224318	FUSE, CARTRIDGE: CURRENT: 440 MA; POTENTIAL: 100 VAC/DC; CONNECTION TYPE: CLIP IN; DIMENSIONS: DIA 10 X LG 35 MM; TYPE: INLINE; CASE MATERIAL: CERAMIC; SUPPL P/N: 201-0251(164 0597)		150		
130	0224319	FUSE, CARTRIDGE: CURRENT: 11 A; POTENTIAL: 1000 VAC/DC; CONNECTION TYPE: CLIP IN; DIMENSIONS: DIA 10 X LG 35 MM; TYPE: INLINE; CASE MATERIAL: CERAMIC; SUPPL P/N: 201-0251(164 0597)		150		
131	0226172	RELAY: TYPE: GENERATOR; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 6NO 2NC; CONTACT RATING: 30/100 VAC; 48/110 VDC 1/5 A; TERMINAL: 9 PIN FRONT/5 PIN MONITOR; SUPPL P/N: P343318K2NO310J; MICOM P343; PROTECTION		150		
132	0226173	RELAY: TYPE: DIFFERENTIAL PROTECTION; COIL VOLTAGE: 220 VDC; CONTACT RATING: 150 VAC 1 A; 24-250 VDC 5 A; MOUNT: SURFACE; SUPPL P/N: P63284801140-305-404-610-710-462-921; TRANSFORMER		150		
133	0226174	RELAY: TYPE: DIFFERENTIAL PROTECTION; COIL VOLTAGE: 220 VDC; CONTACT RATING: 150 VAC 1 A; 24-250 VDC 5 A; MOUNT: SURFACE; SUPPL P/N: P6338499140-305-406-610-710-462-921-800; TRANSFORMER		150		
134	0226175	RELAY: TYPE: EARTH FAULT; COIL VOLTAGE: 220 VDC; CONTACT RATING: 100-250 VAC; 48-150 VDC; MOUNT: PANEL; SUPPL P/N: P125 BAOU111; NUMERICAL RELAYSTO, PERFORM PROTECTION AND CONTROL FUNCTIONS MICOM		150		
135	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: MVAA11T1NA1151A		150		
136	0226178	RELAY: TYPE: TRIP; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 300		150		

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		VAC 30 A 7500 VA; MOUNT: PANEL; CONTACT MATERIAL: CU SILVER PLTD; SUPPL P/N: MVAX12; SIZE 2 CASE, SELF RESET				
137	0226181	RELAY: TYPE: GENERATOR; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 1NO 2NC; CONTACT RATING: 600 VDC 20 A; MOUNT: PANEL; SUPPL P/N: SEG MRRI 220VDC; MULTIFUNCTIONAL ROTOR PROTECTION, E/F, 1 AND 2 HAVE 2 CHANGE OVER CONTACTS, 3 AND 5 HAVE 1 CHANGE OVER CONTACT		150		
138	0226448	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.5 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 4; REFERENCE NO: A00301; GG; FOR LV SWITCHGEAR		600		
139	0226449	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 V; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 85.8 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 6; REFERENCE NO: 400302; FOR LV SWITCHGEAR		600		
140	0226450	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 10; REFERENCE NO: 400291; GG; FOR LV SWITCHGEAR		150		
141	0226451	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 16; REFERENCE NO: 400292; FOR LV SWITCHGEAR, GG		150		
142	0226452	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 20; REFERENCE NO: 400293; FOR LV SWITCHGEAR, GG		150		
143	0226453	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 32; REFERENCE NO: 400296; FOR LV SWITCHGEAR, GG		150		
144	0226454	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIS 40; REFERENCE NO: 400305; FOR LV SWITCHGEAR, GG		150		
145	0226455	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIS 63; REFERENCE NO: 400307; GG; FOR LV SWITCHGEAR		150		
146	0226456	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TCP 80; REFERENCE NO: 400281; FOR LV SWITCHGEAR, GG		150		
147	0226457	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 550 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: OS 100; REFERENCE NO: 400231; FOR LV SWITCHGEAR, GG		150		
148	0226458	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 660 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: LG 111 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TCP 100; REFERENCE NO: 400273; FOR LV SWITCHGEAR, GG		150		

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149	0226459	FUSE, CARTRIDGE: CURRENT: 125 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TF 125; REFERENCE NO: 400282; FOR LV SWITCHGEAR, GG		150		
150	0226460	FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TF 160; REFERENCE NO: 400283; FOR LV SWITCHGEAR, GG		150		
151	0226461	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 66 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TF 200; REFERENCE NO: 400284; FOR LV SWITCHGEAR, GG		150		
152	0226462	FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TKF 250; REFERENCE NO: 400311; FOR LV SWITCHGEAR, GG		150		
153	0226463	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 550 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TMF 355 A; REFERENCE NO: 400334; FOR LV SWITCHGEAR, GG		150		
154	0226464	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 415 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TMF 400; REFERENCE NO: 400335; FOR LV SWITCHGEAR		150		
155	0226465	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 550 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 133 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TM 400 A; REFERENCE NO: 400395; FOR LV SWITCHGEAR, GG		150		
156	0226466	FUSE, CARTRIDGE: CURRENT: 630 A; POTENTIAL: 660 V; CONNECTION TYPE: (4) HOLE VERTICAL; DIMENSIONS: LG 133 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TTM 630; REFERENCE NO: 400347; FOR LV SWITCHGEAR, GG		150		
157	0226467	FUSE, CARTRIDGE: CURRENT: 1000 A; POTENTIAL: 550 VAC; CONNECTION TYPE: (4) HOLE HORIZONTAL; DIMENSIONS: LG 133 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TXV 1000; REFERENCE NO: 400356; FOR LV SWITCHGEAR, GG		150		
158	0226468	FUSE, CARTRIDGE: CURRENT: 1.25 KA; POTENTIAL: 550 VAC; CONNECTION TYPE: (4) HOLE HORIZONTAL; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TXV 1250; REFERENCE NO: 400357; FOR LV SWITCHGEAR, GG		150		
159	0226469	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 2; REFERENCE NO: 401236; FOR LV SWITCHGEAR, GG		150		
160	0226470	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 4; REFERENCE NO: 401242; FOR LV		150		

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		SWITCHGEAR, GG				
161	0226471	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 6; REFERENCE NO: 401243; FOR LV SWITCHGEAR, GG		150		
162	0226472	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 10; REFERENCE NO: 401234; FOR LV SWITCHGEAR, GG		150		
163	0226473	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 16; REFERENCE NO: 401235; FOR LV SWITCHGEAR, GG		150		
164	0226474	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 20; REFERENCE NO: 401237; FOR LV SWITCHGEAR, GG		150		
165	0226475	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 500 V; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; TYPE: NORMAL BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 25; REFERENCE NO: 401238; FOR LV SWITCHGEAR, GG		150		
166	0226476	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 32; REFERENCE NO: 401239; FOR LV SWITCHGEAR		150		
167	0226477	FUSE, CARTRIDGE: POTENTIAL: 550 VAC; CONNECTION TYPE: CLIP IN; DIMENSIONS: LG 62 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: NS 20 M 25; FOR LV SWITCHGEAR		150		
168	0226478	FUSE, CARTRIDGE: POTENTIAL: 500 VAC; DIMENSIONS: LG 85.8 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 32 M 35; REFERENCE NO: 400297; FOR LV SWITCHGEAR		150		
169	0226479	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 500 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: SLO BLO; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 32 M 40; REFERENCE NO: 400298; FOR LV SWITCHGEAR, TYPE TIA 32 M		150		
170	0226480	FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 500 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: SLO BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA 32 M 50; REFERENCE NO: 400299; FOR LV SWITCHGEAR		150		
171	0226481	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 500 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 85.8 MM; TYPE: SLO BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIS 63 M 80; FOR LV SWITCHGEAR, GM		150		
172	0226482	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 660 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: LG 85.8 MM; TYPE: SLO BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TIS 63 M 100;		150		

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		REFERENCE NO: 400309; FOR LV SWITCHGEAR, GM				
173	0226483	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 415 VAC; CONNECTION TYPE: 2 HOLE; TYPE: SLO BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: OS 100 M 160; REFERENCE NO: 400232; FOR LV SWITCHGEAR, GM		150		
174	0226484	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 440 VAC; CONNECTION TYPE: 2 HOLE; TYPE: SLO BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: OS 100 M 125; REFERENCE NO: 400232; FOR LV SWITCHGEAR, GM		150		
175	0226485	FUSE, CARTRIDGE: CURRENT: 125 A; POTENTIAL: 500 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; TYPE: SLO BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: TCP 100 M 125; REFERENCE NO: 400274; FOR LV SWITCHGEAR, GM		150		
176	0226486	FUSE, CARTRIDGE: POTENTIAL: 500 VAC; DIMENSIONS: LG 111 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TCP 100 M 160; REFERENCE NO: 400275; GM; FOR LV SWITCHGEAR		150		
177	0226487	FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TF 200 M 250; REFERENCE NO: 400285; FOR LV SWITCHGEAR		150		
178	0226488	FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 550 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TF 200 M 315; REFERENCE NO: 400286; FOR LV SWITCHGEAR		150		
179	0226489	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 660 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: LG 111 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TKF 315 M 355; REFERENCE NO: 400313; FOR LV SWITCHGEAR		150		
180	0226490	HOLDER, FUSE: POTENTIAL: 550 VAC; CURRENT: 32 A; FUSE STYLE: CERAMIC; MOUNT: CLIP IN; SUPPL P/N: SC 32 H BLACK; REFERENCE NO: 402550; FOR LV SWITCHGEAR		150		
181	0226491	HOLDER, FUSE: POTENTIAL: 550 VAC; CURRENT: 32 A; FUSE STYLE: CERAMIC; MOUNT: CLIP IN; SUPPL P/N: SC 32 H WHITE; REFERENCE NO: 402256; FOR LV SWITCHGEAR		150		
182	0226492	HOLDER, FUSE: POTENTIAL: 660 VAC; CURRENT: 32 A; FUSE STYLE: CERAMIC; MOUNT: CLIP IN; SUPPL P/N: RS 32 H BLACK; REFERENCE NO: 402173; FOR LV SWITCHGEAR		150		
183	0226493	HOLDER, FUSE: POTENTIAL: 600 V; CURRENT: 63 A; FUSE STYLE: CERAMIC; MOUNT: CLIP IN; SUPPL P/N: RS 63 H; REFERENCE NO: 402265; FOR LV SWITCHGEAR		150		
184	0235007	BREAKER, CIRCUIT: POTENTIAL: 230 V; CURRENT: 16 A; POLE: 1; TYPE: DC-DC CONVERTER; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: S201-B16; ABB, USED ON OCGT AUX PLANT		150		
185	0236303	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 25 X LG 61 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: CD 80; OVERHEAD CRANE		150		

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186	0236437	BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 63 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: IEC60947-2; FOR USE ON DB BOARD		150		
187	0237398	BREAKER, CIRCUIT, LOW VOLTAGE: MOUNT: DIN RAIL; TYPE: ACB; CONTROL VOLTAGE: 400 V; POLES: 3; CURRENT RATING: 208 A; VOLTAGE PROTECTION LEVEL: 400 V; RATED INSULATION VOLTAGE: 380 V; IMPULSE WITHSTAND VOLTAGE: 8 KV; SHORT TIME CURRENT: 208 A; POLLUTION CLASS: 3 DEG; SPECIFICATION: 405488; APPLICATION: MOTOR PROTECTION; PROTECTION: MOTOR; SUPPL P/N: 405448MOP250A; MPACT MOTOR DRIVE		150		
188	0237402	BREAKER, CIRCUIT: POTENTIAL: 400-600 VAC; CURRENT: 1.6 KA; POLE: 3; SPECIFICATION: IEC 947-1; FRAME: DRAWOUT; WIDTH: 342 MM; LENGTH: 190 MM; HEIGHT: 400 MM; TYPE: IMPACT AIR, ACB INCOMER; INTERRUPT CAPACITY: 50 KA; SUPPL P/N: 406187MS31W16-A; TYPE MPACT AIR		10		
189	0237410	BREAKER, CIRCUIT: POTENTIAL: 400-600 VAC; CURRENT: 1 KA; POLE: 3; WIDTH: 400 MM; LENGTH: 400 MM; HEIGHT: 370 MM; TYPE: MCB; MOUNT: DIN RAIL; INTERRUPT CAPACITY: 50 KA; SUPPL P/N: 406183MS1W10-A; TYPE MPACT AIR		150		
190	0237436	BREAKER, CIRCUIT: POTENTIAL: 400-600 VAC; CURRENT: 630 A; POLE: 3; WIDTH: 330 MM; LENGTH: 400 MM; HEIGHT: 370 MM; TYPE: MCB; MOUNT: DIN RAIL; INTERRUPT CAPACITY: 50 KA; SUPPL P/N: 406179MS31W06-A; TYPE MPACT AIR		150		
191	0237461	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 20 A; POLE: 3; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674654G63C20; G60		150		
192	0237462	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 10 A; POLE: 3; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674651G63C10		150		
193	0237469	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 32 A; POLE: 3; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674656G63C32; G60		150		
194	0237470	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 25 A; POLE: 3; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674655G63C25; G60		150		
195	0237471	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 16 A; POLE: 3; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674653G63C16; G60		150		
196	0237479	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 20 A; POLE: 1; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674606G61C20; G60		150		
197	0237481	BREAKER, CIRCUIT: POTENTIAL: 230/400 VAC; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 673322EP102UCC06; G60		150		
198	0237482	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 32 A; POLE: 1; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674608G61C32; G60		150		
199	0237483	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 16 A; POLE: 1; TYPE: MINIATURE; INTERRUPT		150		

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		CAPACITY: 6 KA; SUPPL P/N: 674605G61C16; G60				
200	0237484	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 10 A; POLE: 1; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674603G61C10; G60		150		
201	0237485	BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 6 A; POLE: 1; TYPE: MINIATURE; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 674601G61C06; G60		150		
202	0237486	BREAKER, CIRCUIT: POTENTIAL: 230/400 VAC; CURRENT: 2 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 673319EP102UCC02		150		
203	0237505	RELAY, OVERLOAD: TRIP RANGE: 175-280 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: BOLT; MOUNT: DIRECT; ENCLOSURE RATING: CLOSE; CONTACT MATERIAL: ALUMINIUM; SUPPL P/N: 113733RT4P		150		
204	0237516	RELAY, OVERLOAD: TRIP RANGE: 90-110 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; MOUNT: PLUG IN; ENCLOSURE RATING: CLOSE; CONTACT MATERIAL: ALUMINIUM; SUPPL P/N: 113726RT2M		150		
205	0237518	RELAY, OVERLOAD: TRIP RANGE: 30-43 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; MOUNT: PLUG IN; ENCLOSURE RATING: CLOSE; CONTACT MATERIAL: ALUMINIUM; SUPPL P/N: 113721RT2E		150		
206	0237528	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 200 A; MOUNT: PANEL; SUPPL P/N: 730823D/062342-221; 3PH		150		
207	0237529	RELAY, OVERLOAD: TRIP RANGE: 64-82 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; MOUNT: PLUG IN; ENCLOSURE RATING: CLOSE; CONTACT MATERIAL: ALUMINIUM; SUPPL P/N: 113724RT2J		150		
208	0237534	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 400 A; MOUNT: PANEL; SUPPL P/N: 731933D062442222; 3PH		150		
209	0237535	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 100 A; MOUNT: PANEL; SUPPL P/N: 730822D/062322-241; 3PH		150		
210	0237536	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 63 A; MOUNT: PANEL; SUPPL P/N: 730819D/02312-231; 3PH		150		
211	0238041	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-800 A; READOUT: DIGITAL; STYLE: PANEL MOUNT FLUSH; SUPPL P/N: SP292A; CHARGER SPARES, 220V AT 730A		150		
212	0238042	METER, ELECTRICAL: TYPE: VOLT; RANGE: 0-220 V; READOUT: DIGITAL; STYLE: SQ; FLUSH PANEL MOUNT; SUPPL P/N: SP292; CHARGER SPARES, 220 V AT 730 A		150		
213	0238213	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 220 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: TRIP INDICATING; CASE MATERIAL: GLASS; SUPPL P/N: FUS090M; FOR USE ON ALARM CARD, BATTERY CHARGER SPARES, 220V AT 730A		150		
214	0238214	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 220 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: TRIP INDICATING; CASE MATERIAL: GLASS; SUPPL P/N: FUS098M; FOR USE ON AC CONTROL, BATTERY CHARGER SPARES		150		
215	0238215	FUSE, CARTRIDGE: CURRENT: 500 A; POTENTIAL: 380 V; CONNECTION TYPE: BLADE; TYPE: TRIP INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: FUS91 (DIN2); FOR USE ON AC INPUT (2 IN		150		

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		PARALLEL/PHASE), BATTERY CHARGER SPARES, 220V AT 730A				
216	0238216	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 220 V; CONNECTION TYPE: BLADE; TYPE: TRIP INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: FUS37 (DIN2); FOR USE ON DC LOAD (2 IN PARALLEL), BATTERY CHARGER SPARES, 220V AT 730A		150		
217	0238217	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 220 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 14 X LG 51 MM; TYPE: TRIP INDICATING; CASE MATERIAL: GLASS; SUPPL P/N: FUS57; TO USE ON LOAD (STRIKER PIN), BATTERY CHARGER SPARES, 220V AT 730A		150		
218	0238218	FUSE, CARTRIDGE: CURRENT: 335 A; POTENTIAL: 220 V; CONNECTION TYPE: PUSH IN; TYPE: TRIP INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: FUS001(DIN2); TO USE ON DC LOAD (2 IN PARALLEL), BATTERY CHARGER SPARES, 220V AT 730A		150		
219	0238253	RELAY, OVERLOAD: TRIP RANGE: 78-97 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: BOLT; ENCLOSURE RATING: CLOSE; CONTACT MATERIAL: CU; SUPPL P/N: RT2L - 113725		150		
220	0238254	RELAY, OVERLOAD: TRIP RANGE: 30-40 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: BOLT; MOUNT: RAIL; ENCLOSURE RATING: CLOSE; CONTACT MATERIAL: CU; SUPPL P/N: RT1W - 113716; DIN		150		
221	0238255	RELAY, OVERLOAD: TRIP RANGE: 140-190 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; MOUNT: DIN RAIL; ENCLOSURE RATING: CLOSE; CONTACT MATERIAL: CU; SUPPL P/N: RT3F - 113731		75		
222	0238292	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-300-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
223	0238293	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-250-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
224	0238294	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-200-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
225	0238295	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-80-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
226	0238296	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-150-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
227	0238297	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-3200-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 96 MM		75		
228	0238298	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-1200-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 96 MM		75		
229	0238299	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-1600-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 96 MM		75		
230	0238305	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-60-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
231	0238306	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-50-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
232	0238307	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-40-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		

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233	0238308	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-30-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
234	0238309	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-20-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
235	0238315	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-500-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
236	0238316	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-400-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
237	0238317	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-800/1; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 96 MM		75		
238	0238319	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-2000-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 96 MM		75		
239	0238321	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-15-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
240	0238322	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-10-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
241	0238324	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-600-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
242	0238325	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-350-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
243	0238326	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-100-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 72 MM		75		
244	0238329	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-2500-1 A; READOUT: ANALOG; STYLE: DOOR MOUNT; FACE SIZE: SQ 96 MM		75		
245	0238343	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 24 V; CONTACT ARRANGEMENT: 2NO; CONTACT RATING: 15 A; ACTION: DPST; TERMINAL: PIN; MOUNT: PUSH ON; ENCLOSURE RATING: PLASTIC; SUPPL P/N: IPC/IPT; USED IN RHGS8 CASE		150		
246	0238538	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 2NO; CONTACT RATING: 15 A; ACTION: DPST; TERMINAL: PIN; MOUNT: BASE; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: CU SILVER PLTD; SUPPL P/N: RXM 2; PUSH IN, TO BE USED WITH RHGS8 CASE		150		
247	0238539	RELAY, SOLID STATE: TYPE: AUXILIARY; COIL VOLTAGE: 220 VAC; CONTACT RATING: 10 A; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPST; MOUNT: BASE; SUPPL P/N: RXMH2; SILVER PLATED COPPER CONTACT, PIN TERMINAL, PLASTIC ENCLOSURE, PUSH IN, FOR USE IN RHGS8 CASE		150		
248	0238540	RELAY, SOLID STATE: TYPE: DC FAIL; COIL VOLTAGE: 220 VDC; CONTACT RATING: 15 A; CONTACT ARRANGEMENT: 2NO; ACTION: DPST; MOUNT: BASE; SUPPL P/N: RK27109- AS; REFERENCE NO: RXSF1*DC220- 250V; SILVER PLATED COPPER CONTACT, PIN TERMINAL, PLASTIC ENCLOSURE, PUSH IN RELAY, IN RHGS8 CASE		150		
249	0238545	BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 6 A; POLE: 2; TYPE: MINI; INTERRUPT CAPACITY: 15 KA; SUPPL P/N: GHZ2820164R0377; USED TO REPLACE FAULTY UNITS IN 6.6KV SWITCHGEAR BOARDS, DIN RAIL		150		

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250	0238546	BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 20 A; POLE: 2; TYPE: MINI; INTERRUPT CAPACITY: 16 KA; SUPPL P/N: GHS2820164R0467; USED TO REPLACE FAULTY UNITS ON 6,6KV SWITCHGEAR PROTECTOR PANELS, DIN RAIL		150		
251	0238549	FUSE, CARTRIDGE: POTENTIAL: 3.3-11 KV; CONNECTION TYPE: CLIP IN; DIMENSIONS: DIA 20 X LG 190 MM; TYPE: HIGH VOLTAGE; CASE MATERIAL: CERAMIC; SUPPL P/N: Z077854A; FOR USE ON VOLTAGE TRANSFORMER UNIT IN 6,6KV SWITCHGEAR		150		
252	0238552	TRANSDUCER: TYPE: CURRENT; INPUT: 1 A; OUTPUT: 4-20 MA; POWER SOURCE: 220 V AC; SUPPL P/N: CA 7 220VA/1A/4-20MA; USED ON VARIOUS 6.6KV AND 400V BOARDS FOR INDICATION ON DCS		150		
253	0238553	TRANSDUCER: TYPE: VOLTAGE; INPUT: 220 V; OUTPUT: 4-20 MA; POWER SOURCE: 110-220 V AC; SUPPL P/N: VA7220VAC/110/4-20MA; USED ON VARIOUS 6.6KV AND 400V BOARDS FOR INDICATION ON DCS		150		
254	0238555	BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 6 A; POLE: 3; TYPE: MINI; INTERRUPT CAPACITY: 20 KA; SUPPL P/N: GHS 2830/64R0377; FOR USE TO REPLACE FAULTY UNITS ON 6.6KV SWITCHGEAR PROTECTION PANELS, DIN RAIL		150		
255	0238556	BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 16 A; POLE: 3; TYPE: MINI; INTERRUPT CAPACITY: 20 KA; SUPPL P/N: GHS28300/64R0467; USE TO REPLACE FAULTY UNITS IN BUSZONE PANEL AND 6,6KV SWITCHGEAR PANELS, DIN RAIL		75		
256	0238559	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 220 VDC; DIMENSIONS: DIA 14 X LG 51 MM; TYPE: BATTERY CHARGER; CASE MATERIAL: CERAMIC; WITH STRIKER PIN, TO BE USED ON THE CHARGER SYSTEM		150		
257	0238943	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; CURRENT: 6 A; POTENTIAL: 220 V; MODEL NO: BCLL11; REQUIRED FOR USE ON CONTACTOR IN UNIT, BOILER AND AUXILIARY BOARDS		150		
258	0239576	BREAKER, CIRCUIT: POTENTIAL: 400 V; CURRENT: 800 A; POLE: 3; INTERRUPT CAPACITY: 50 KA; TYPE IMPACT AIR; FOR USE IN COMMON PLANT AS AN INCOMING BREAKER ONLY		25		
259	0239592	LIGHT, INDICATING: POTENTIAL: 220 VAC; POWER: 2 W; COLOR: YELLOW; TERMINAL: SCREW TERMINAL; SUPPL P/N: 185793; REFERENCE NO: P9XLGD; PILOT		150		
260	0240125	BREAKER, CIRCUIT: POTENTIAL: 400 V; CURRENT: 400 A; POLE: 3; TYPE: AIR IMPACT; INTERRUPT CAPACITY: 50 KA; COMMON PLANT INCOMING LV RACK IN BREAKER		25		
261	0240307	PUSH BUTTON: TYPE: EMERGENCY STOP; REFERENCE NO: SZT-42-92130-00023; MATERIAL PLASTIC, FOR USE ON TURBINE PLANT; COLOR: RED		25		
262	0240330	TRANSDUCER: TYPE: CURRENT; INPUT: 0-1 A AC; OUTPUT: 4-20 MA DC AT 500 OHM; SUPPL P/N: KA1A1A4MC52; TYPE: MEAN RA/A, CALIBRATION: 10-140 PCT		150		
263	0240893	ISOLATOR, ELECTRICAL: POTENTIAL: 400 V; CURRENT: 200 A; SUPPL P/N: 40058027; CONTACT TYPE MAIN		150		
264	0243046	FUSE, CARTRIDGE: SUPPL P/N: 08600110060000L; REQUIRED FOR USE ON ALL 10 KVA UPS		150		
265	0243047	RELAY: CONTACT RATING: 240 VAC 25 A; SUPPL P/N: 22RA000R000000L; REQUIRED FOR USE ON ALL 25 KVA		150		

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		UPS				
266	0243179	TRANSDUCER: TYPE: LEVEL; OUTPUT: 4-20 MA; POWER SOURCE: 220 V AC; DRAWING NO: K10F REV 1; FOR USE ON COMMON PLANT, SUMPI LEVEL TX FOR DISTANCE MEASURING, MONITORING, RANGING AND SENSING OF COAL LEVELS IN BUNKERS AND STAIRS		150		
267	0243549	FUSE, CARTRIDGE: CURRENT: 200 A; SUPPL P/N: 0860020006000L; REQUIRED FOR USE ON THE 25 KVA UPS		150		
268	0243556	BREAKER, CIRCUIT: POLE: 1; TYPE: 25 KVA UPS; SUPPL P/N: 25A4150004AO11L		150		
269	0243787	BREAKER, CIRCUIT: POLE: 3; TYPE: MINIATURE; SUPPL P/N: 25A4150002A030L; REQUIRED FOR USE ON ALL 10KVA, 25KVA AND 50KVA UPS		150		
270	0243789	FUSE, CARTRIDGE: CURRENT: 150 A; SUPPL P/N: 0862015006600L; TYPE 10 KVA UPS, GSG 1000/75		150		
271	0244039	ISOLATOR, ELECTRICAL: POTENTIAL: 400 V; CURRENT: 63 A; APPLICATION: LV SWITCHGEAR BUCKET; SUPPL P/N: 730055; DILOS 1		150		
272	0244167	RELAY: TYPE: DOUBLE CONTACT; COIL VOLTAGE: 24 VDC; CONTACT RATING: 24 V DC; TERMINAL: 8 PIN; MOUNT: DIN RAIL; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; MODEL NO: EMG10-REL/KSR-G 24/1-LC AU; REFERENCE NO: 2940087; REQUIRED FOR USE ON TURBINE PLANT		150		
273	0244168	TRANSDUCER: TYPE: INDUCTIVE DISPLACEMENT; INPUT: 4-20 MA; POWER SOURCE: 24 V DC; APPLICATION: TURBINE PLANT; REFERENCE NO: PR9350/02; TYPE K20315/03; IN PROTECTIVE HOUSING		150		
274	0244169	TRANSDUCER: TYPE: ELECTRODYNAMIC VELOCITY SENSOR; INPUT: 4-1000 HZ; OUTPUT: 28.5 MV/MIL; POWER SOURCE: 24 V DC; APPLICATION: TURBINE PLANT; SPECIFICATION: EN50014; OEM P/N: PR9268/200-000; REFERENCE NO: 9200-00071; ELECTRO DYNAMIC ABSOLUTE VIBRATION		150		
275	0244192	TRANSDUCER: TYPE: POSITION; INPUT: 0-50 MM; OUTPUT: 4-20 MA; POWER SOURCE: 24 V DC; APPLICATION: MAIN TURBINE, STEAM FEED PUMP, TURBINE AUXILIARY STEAM SERVOMOTOR; REFERENCE NO: SZ50013890; TYPE DI 505; IT MUST COME WITH A PLUG AND 3M CABLE; CABLE SPECIFICATION MAGTROL CABLE REDOX SHEATING WITH STRAIGHT CONNECTOR EH144/02/ P/N 943.144.000.021		150		
276	0244193	TRANSDUCER: TYPE: POSITION; INPUT: 0-100 MM; OUTPUT: 4-20 MA; POWER SOURCE: 24 V DC; APPLICATION: MAIN TURBINE EMERGENCY STOP VALVE, STEAM FEED PUMP TURBINE EMERGENCY STOP VALVE, BLED STEAM SERVOMOTOR; REFERENCE NO: SZ50007091; TYPE DI 510; IT MUST COME WITH A PLUG AND 3M CABLE; CABLE SPECIFICATION: REDOX SHEATING WITH STRAIGHT CONNECTOR EH144/02 P/N 943.144.000.021		150		
277	0244554	RELAY: COIL VOLTAGE: 120 VAC; CONTACT ARRANGEMENT: 3NO 1NC; SUPPL P/N: P-13573; REQUIRED FOR WAHLCO SO3 PLANT		150		
278	0244555	RELAY: COIL VOLTAGE: 120 VAC; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: P-13572; REQUIRED FOR WAHLCO SO3 PLANT		150		
279	0244558	METER, ELECTRICAL TEST: TYPE: PANEL; READOUT: DIGITAL; RANGE: 85-265 VAC; SUPPL P/N: P-17911; FOR WAHLCO SO3 PLANT		150		

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280	0244614	BREAKER, CIRCUIT: CURRENT: 3 A; POLE: 1; SUPPL P/N: P-13294; REQUIRED FOR WAHLCO SO3 PLANT	150		
281	0244615	BREAKER, CIRCUIT: CURRENT: 250 A; POLE: 3; SUPPL P/N: P-17794; REQUIRED FOR WAHLCO SO3 PLANT; 200AMP TRIP	150		
282	0244616	BREAKER, CIRCUIT: CURRENT: 1 A; POLE: 1; SUPPL P/N: P-13282; REQUIRED FOR WAHLCO SO3 PLANT	150		
283	0244617	BREAKER, CIRCUIT: CURRENT: 2 A; POLE: 1; SUPPL P/N: P-13288; REQUIRED FOR WAHLCO SO3 PLANT	150		
284	0244627	RELAY, TIME DELAY: COIL VOLTAGE: 120 VAC 50/60 HZ; SUPPL P/N: P-17931; WAHLCO SO3 PLANT	150		
285	0244630	BREAKER, CIRCUIT: CURRENT: 150 A; POLE: 3; FRAME: J; SUPPL P/N: P-17793; REQUIRED FOR WAHLCO SO3 PLANT	150		
286	0244631	BREAKER, CIRCUIT: CURRENT: 125 A; POLE: 3; SUPPL P/N: P-17792; REQUIRED FOR WAHLCO SO3 PLANT; 60AMP TRIP	150		
287	0244651	HOLDER, FUSE: CURRENT: 1-450 A; FUSE STYLE: SEMI CONDUCTOR; SUPPL P/N: P-13592; BLOCK; REQUIRED FOR WAHLCO SO3 PLANT; ONE PAIR	150		
288	0244652	FUSE: TYPE: SEMICONDUCTOR; CURRENT: 200 A; POTENTIAL: 600 VAC; SUPPL P/N: P-13407; REQUIRED FOR WAHLCO SO3 PLANT	150		
289	0244653	BREAKER, CIRCUIT: CURRENT: 5 A; POLE: 1; SUPPL P/N: P-13313; REQUIRED FOR WAHLCO SO3 PLANT	150		
290	0245116	SWITCH, SELECTOR: POSITION: 2; CURRENT: 10 A; CONTACT CONFIGURATION: BYPASS/NORMAL; CONTACT ARRANGEMENT: 1NO	150		
291	0245117	RELAY, CONTROL: CONTACT RATING: 16 A; CONTACT ARRANGEMENT: 1NO 1NC; COIL VOLTAGE: 220 VAC; SUPPL P/N: 100024; REFERENCE NO: MCR022ATN	150		
292	0245118	RELAY: TYPE: INTERPOSING; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: FLUSH; CONTACT MATERIAL: CU SILVER PLTD; SUPPL P/N: SH04.22; 24VD IPS AND IPR	150		
293	0245119	RELAY: TYPE: INTERPOSING; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: FLUSH; CONTACT MATERIAL: CU SILVER PLTD; SUPPL P/N: MCR 1022 ATD	150		
294	0245120	RELAY: TYPE: INTERPOSING; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: FLUSH; CONTACT MATERIAL: CU SILVER PLTD; SUPPL P/N: IPCMCR1031AD	150		
295	0245132	RELAY, OVERLOAD: TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT MATERIAL: CU; APPLICATION: LV SWITCHGEAR; SUPPL P/N: 113764RT2XP; REQUIRED FOR THE RT2 RANGE	150		
296	0245153	LIGHT, INDICATING: TYPE: PILOT; POTENTIAL: 220 V; POWER: 2 W; COLOR: AMBER; TERMINAL: SCREW; SUPPL P/N: 185795; REQUIRED FOR INDICATOR ON BUCKET, P 9XLAD, LV SWITCHGEAR	150		
297	0245154	LIGHT, INDICATING: TYPE: PILOT; POTENTIAL: 220 V; POWER: 2 W; COLOR: GREEN; TERMINAL: SCREW; SUPPL P/N: 185792; REQUIRED FOR INDICATION ON BUCKETS, P9XLVD, LV SWITCHGEAR	150		
298	0245155	LIGHT, INDICATING: TYPE: PILOT; POTENTIAL: 220 V; POWER: 2 W; COLOR: RED; TERMINAL: SCREW; SUPPL P/N: 185791; REQUIRED FOR INDICATION ON BUCKETS, P 9XLRD, LV SWITCHGEAR	150		
299	0245637	SWITCH, DISCONNECT: TYPE: LOADBREAK; CURRENT: 800 A; MOUNT: HORIZONTAL; APPLICATION: BUCKETS OF THE LV SWITCHGEAR	75		
300	0245638	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 220 V; SUPPL P/N: 730252; FOR USE ON SWITCHGEAR	150		

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301	0245639	ISOLATOR, ELECTRICAL: POTENTIAL: 380 V; CURRENT: 125 A; APPLICATION: LV SWITCHGEAR BUCKET; POLE: 3; SUPPL P/N: 730073; MODEL NO: Q 04/1	150		
302	0245640	ISOLATOR, ELECTRICAL: POTENTIAL: 400 V; CURRENT: 100 A; APPLICATION: LV SWITCHGEAR BUCKET; SUPPL P/N: 730067; DILOS	150		
303	0245641	ISOLATOR, ELECTRICAL: POTENTIAL: 400 V; CURRENT: 80 A; APPLICATION: LV SWITCHGEAR BUCKET; SUPPL P/N: 730061; DILO	150		
304	0245642	ISOLATOR, ELECTRICAL: POTENTIAL: 400 V; CURRENT: 40 A; APPLICATION: LV SWITCHGEAR BUCKET; SUPPL P/N: 730049	150		
305	0245850	RELAY: TYPE: MONITORING; COIL VOLTAGE: 220 VAC; CONTACT RATING: 10 A; CONTACT MATERIAL: CU	150		
306	0246020	SWITCH, PRESSURE: TYPE: OIL; RANGE: 0-1.3 BAR; POTENTIAL: 17.5 KVDC; CURRENT: 120 KA; ACTION: SPDT; CONNECTION: TOP; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: CIRCUIT BREAKER FKG1N GENERATOR; SUPPL P/N: HBL02557372	150		
307	0246046	SWITCH: POTENTIAL: 24 KV; CURRENT: 15 A; APPLICATION: GENERATOR FKG1N LV CIRCUIT BREAKER; SUPPL P/N: HBL02555823	150		
308	0246511	SWITCH, SELECTOR: POSITION: 2; CURRENT: 15 A; ACTION: SPST; SUPPL P/N: CA10A222/603E/050; TYPE TEST REMOTE, FOR USE ON LV SWITCHGEAR, SHAFT OPERATED, DT146, 3 POLE	150		
310	0246513	RELAY: TYPE: DC FAIL; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 15 A; ACTION: SPST; CONTACT MATERIAL: CU SILVER PLTD; REQUIRED FOR LV SWITCHGEAR, INDUCTION	150		
311	0246514	RELAY: TYPE: DC FAIL; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 15 A; ACTION: SPST; CONTACT MATERIAL: CU SILVER PLTD; REQUIRED FOR LV SWITCHGEAR, INDUCTION	150		
312	0246515	PUSH BUTTON: TYPE: STOP; SUPPL P/N: 185001; REQUIRED FOR LV SWITCHGEAR; COMPLETE; MATERIAL PLASTIC; COLOUR RED	150		
313	0246562	BREAKER, CIRCUIT: POTENTIAL: 24 VDC; CURRENT: 15 A; SUPPL P/N: EAM15A2V3/31-99-815; REQUIRED FOR TURBINE PLANT	150		
314	0246563	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 0.4 A; TYPE: MINIATURE; REFERENCE NO: 01-20-171; FSA2310.4AGN; REQUIRED FOR TURBINE PLANT	150		
315	0246564	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 2 A; TYPE: MINIATURE; REFERENCE NO: FSA231 2.0AGN; 0 1-20-174; REQUIRED FOR TURBINE PLANT; GREEN	150		
316	0246565	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 2 A; TYPE: MINIATURE; REFERENCE NO: FSA231 2.0 ART; 01-20-178; REQUIRED FOR TURBINE PLANT; RED	150		
317	0246566	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE; REFERENCE NO: 01-20-180; FSA 231 6 ART; REQUIRED FOR TURBINE PLANT; RED; WIDMA IER	150		
318	0246567	RELAY: COIL VOLTAGE: 220 VDC; CONTACT RATING: 220 V AC; FOR USE ON LV SWITCHGEAR, CORE BALANCE REACTOR 55 MM EARTH LEAKAGE RELAY ONLY	150		
319	0246568	PUSH BUTTON: TYPE: START; SUPPL P/N: 185002; REQUIRED FOR LV SWITCHGEAR; COMPLETE; MATERIAL PLASTIC; COLOUR GREEN	150		
320	0246569	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 1.25 KA; MOUNT: PANEL;	75		

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		APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 730839; MATERIAL CERAMIC, BOLT ON CONNECTION				
321	0246570	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 100 A; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 730834; FULOS 00, MATERIAL CERAMIC, BOLT ON CONNECTION; 4 POLE		150		
322	0246571	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 100 A; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 731921; MATERIAL CERAMIC, BOLT ON CONNECTION; 4 POLE		150		
323	0246572	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 63 A; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 730831; MATERIAL CERAMIC, BOLT ON CONNECTION; 4 POLE		150		
324	0246573	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 400 V; CURRENT: 1.25 KA; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 730827; MATERIAL CERAMIC, BOLT ON CONNECTION		75		
325	0246574	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 500 A; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 730836; MATERIAL CERAMIC, BOLT ON CONNECTION; 3 POLE		75		
326	0246575	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 400 A; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 730824; MATERIAL CERAMIC, BOLT ON CONNECTION		150		
327	0246576	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 200 A; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER IN LV PANEL; SUPPL P/N: 731927; MATERIAL CERAMIC, BOLT ON CONNECTION; 3 POLE		150		
328	0246577	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 380 V; CURRENT: 100 A; MOUNT: PANEL; APPLICATION: CIRCUIT BREAKER ON LV BREAKER TO CONNECT POWER TO CIRCUIT; SUPPL P/N: 731919; FULOS 000, MATERIAL CERAMIC, BOLT ON CONNECTION; 3 POLE		150		
329	0246821	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; CURRENT: 10 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 673324; REFERENCE NO: EP102UCC10; REQUIRED FOR USE IN LV PANEL TO SUPPLY AUXILIARIES		150		
330	0246822	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 220 VDC; CURRENT: 16 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 673326; REFERENCE NO: EP102UCC16; REQUIRED FOR USE IN LV PANELS TO SUPPLY AUXILIARIES		150		
331	0246823	BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 25 A; POLE: 1; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 674607; REFERENCE NO: G61C25; REQUIRED FOR USE IN LV PANELS		150		
332	0246824	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 220 VDC; CURRENT: 32 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 673329; REFERENCE NO: EP102UCC32; REQUIRED FOR USE IN LV PANELS TO SUPPLY AUXILIARIES		150		
333	0246825	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 220 VDC; CURRENT: 4 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 673321; REFERENCE NO: EP102UCC04;		150		

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		REQUIRED FOR USE IN LV PANELS FOR AUXILIARY SUPPLY				
334	0246826	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 220 VDC; CURRENT: 63 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 673332; REFERENCE NO: EP102UCC63; REQUIRED FOR USE IN LV PANEL TO SUPPLY AUXILIARIES		150		
335	0246840	TRANSDUCER: TYPE: CURRENT; INPUT: 75 MIL V; OUTPUT: 4-20 MA; APPLICATION: LV SWITCHGEAR		150		
336	0246841	TRANSDUCER: TYPE: VOLTAGE; INPUT: 400 VAC; OUTPUT: 4-20 MA; APPLICATION: LV SWITCHGEAR		150		
337	0247450	RELAY: TYPE: CHANGE OVER; COIL VOLTAGE: 110-250 VDC; MOUNT: PANEL; ENCLOSURE RATING: IP65; SUPPL P/N: F650BFBF1G0H1; GE MULTILIN F650		150		
338	0247732	RELAY, OVERLOAD: TRIP RANGE: 25-250 A; TYPE: PROGRAMMABLE; RESET: AUTOMATIC/MANUAL; CURRENT: 260 A; MOUNT: BRACKET; ENCLOSURE RATING: IP65; APPLICATION: MOTOR; SUPPL P/N: MA250; REQUIRED FOR USE ON BUFFALO FEEDER, MULTI PROTECTION FUNCTION; THE RELAY MUST BE PRE-PROGRAMMED PRIOR DELIVERY		150		
339	0247899	FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 660 V; CONNECTION TYPE: BOLT; DIMENSIONS: WD 40 X LG 95 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: TFP250; REQUIRED FOR USE ON INTAKE PUM PS AT VAAL DAM		150		
340	0247946	RELAY: CONTACT RATING: 120 VAC; 24 VDC; TERMINAL: 5 POINTS; MOUNT: PLUG IN; SUPPL P/N: G2R-1A-TV3-AS1; MODEL NO: G2R-1A-24 VDC; REQUIRED FOR USE ON TURBINE HYDRAULIC SYSTEM		150		
341	0248541	RELAY: COIL VOLTAGE: 110 V; CONTACT ARRANGEMENT: 4NC; CONTACT RATING: 10 A; TERMINAL: 14 PIN; MOUNT: BASE; CONTACT MATERIAL: CU; REQUIRED FOR USE ON GOODS LIFTS IN PLANT		150		
342	0249461	SWITCH, PRESSURE: TYPE: WATER; RANGE: 10 BAR; POTENTIAL: 400 V; CURRENT: 10 A; ACTION: 3; CONNECTION: 1/4 IN-18BSP; 3/8 IN-NPT (FEMALE TO MALE); APPLICATION: FIRE SYSTEM; ENCLOSURE RATING: IP54		150		
343	0249574	SWITCH, PUSH: POTENTIAL: 500 V; CURRENT: 16 A; CONTACT RATING: 500 V 16 A; CONTACT ARRANGEMENT: 2 CHANGE OVER CONTACTS; MOUNT: BOLTED; APPLICATION: CONVEYOR BELT; SPECIFICATION: CTS700 BL; SUPPL P/N: CTS700BL; ORANGE BOX; ELECTRONIC CARD IS ENCLOSED IN SWITCH BOX; MISALIGNMENT OF THE BELT IS DETECTED VIA TWO UPRIGHT ARMS WHICH ARE CONNECTED TO AN ELECTRICAL SWITCH VIA A POLY-CARBONATE MADE COUPLING MECHANISM; REQUIRED FOR USE ON CONVEYOR LONG LINE PROTECTION, RETURN BELT MISALIGNMENT DETECTOR		150		
344	0249903	RELAY: CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 240 VAC; 24 VDC; ACTION: SPST; TERMINAL: 5 POINTS; ENCLOSURE RATING: FLUX PROTECTION; MODEL NO: G2R; REQUIRED FOR USE ON TURBINE SYSTEM; COIL VOLTAGE AC/DC; STOCK NO. 366-265		150		
345	0250439	FUSE, CARTRIDGE: CURRENT: 630 A; POTENTIAL: 690 V; CONNECTION TYPE: BOLTED; DIMENSIONS: SQ 59 X THK 51 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SPECIFICATION: IEC 2BKN/50M; MANUF P/N: 170M5 462; REQUIRED FOR USE IN THYRISTOR DRIVES, BLOWN		150		

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346	0250984	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 500 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: SLOW BLOW; CASE MATERIAL: CERAMIC; REQUIRED FOR USE ON THE V.T. CIRCUIT OF GENERATOR BREAKER	150		
347	0250985	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: SLOW BLOW; CASE MATERIAL: CERAMIC; REQUIRED FOR USE ON THE V.T. CIRCUIT OF GENERATOR BREAKER	150		
348	0250989	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: SLOW BLOW; CASE MATERIAL: CERAMIC; REQUIRED FOR USE ON THE V.T. CIRCUIT OF GENERATOR BREAKER	150		
349	0251694	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 500 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 20 X LG 48 MM; INTERRUPT CAPACITY: 120 KA; SUPPL P/N: NH000; FOR USE ON THE START DELTA STARTERS PROTECTION IN THE ASH PLANT	150		
350	0251879	TRANSDUCER: TYPE: MEASURING; INPUT: 0-110 V; OUTPUT: 4-20 MA; POWER SOURCE: 100 VAC 50-60 HZ; APPLICATION: SWITCHGEAR; REQUIRED FOR USE ON THE 6.6KV BOARD (ABB) FOR METERING	150		
351	0253001	TRANSDUCER: TYPE: DC VOLT; INPUT: 0-240 V; OUTPUT: 4-20 MA; APPLICATION: STATION BOARDS 220 V DC; SUPPL P/N: KZ1-V240-A4M-C5 -4	150		
352	0253156	CONTACT, AUXILIARY: TYPE: GE BOARD CONTACTOR; CONTACT ARRANGEMENT: 1NO 1NC; CURRENT: 6 A; POTENTIAL: 220 VAC; MATERIAL: PLASTIC; ATTACHMENT METHOD: CLIP ON; CONNECTION: CAPTIVE SCREW; SUPPL P/N: 104705; REFERENCE NO: BCRR11	150		
353	0253445	RELAY: TYPE: EARTH FAULT/OVERCURRENT; COIL VOLTAGE: 24-60 VDC; CONTACT RATING: 1 A; MOUNT: PANEL; ENCLOSURE RATING: IP54; REFERENCE NO: 610C11LCNN02; 3 PHASE FOR USE ON THE EXCITATION CONTROL PANELS; CONFIGURABLE	150		
354	0256032	TERMINAL: TYPE: EARTH; SUPPL P/N: WPE2.5; REQUIRED FOR USE ON BURNER SYSTEM	150		
355	0256033	TERMINAL: TYPE: FUSED; SUPPL P/N: WSI 6; REQUIRED FOR USE ON BURNER SYSTEM	150		
356	0256036	BREAKER, CIRCUIT: CURRENT: 2 A; POLE: 2; TYPE: MINIATURE; SUPPL P/N: S202M-C2; REQUIRED FOR USE ON THE BURNER SYSTEM	150		
357	0256044	LENS, INDICATING LIGHT: TYPE: PILOT LAMP, BURNER SYSTEM; DIMENSIONS: DIA 22 MM; COLOR: GREEN; SUPPL P/N: ZB4BV-01 3	150		
358	0256045	LENS, INDICATING LIGHT: TYPE: PILOT LAMP, BURNER SYSTEM; DIMENSIONS: DIA 22 MM; COLOR: RED; SUPPL P/N: ZB4BV-043	150		
359	0256046	LENS, INDICATING LIGHT: TYPE: PILOT LAMP, BURNER SYSTEM; DIMENSIONS: DIA 22 MM; COLOR: WHITE; SUPPL P/N: ZB4BV-03 3	150		
360	0256047	SWITCH, PUSHBUTTON: COLOR: GREEN; MOUNT: FLUSH; SIZE: DIA 22 MM; APPLICATION: BURNER SYSTEM HARMONY 4 RANGE; SUPPL P/N: ZB4BA 3	150		
361	0256048	SWITCH, PUSHBUTTON: COLOR: RED; MOUNT: FLUSH; SIZE: DIA 22 MM; APPLICATION: BURNER SYSTEM HARMONY 4 RANGE; SUPPL P/N: ZB4-BA4	150		
362	0501318	BREAKER, CIRCUIT: POTENTIAL: 400 VAC; CURRENT: 16 A; POLE: 2; MOUNT: CLIP ON; INTERRUPT CAPACITY: 20 KA; MANUF P/N: CBI; REQUIRED FOR USE ON LIGHT CIRCUIT	150		
363	0501373	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 400 VAC; CONNECTION TYPE: BOLTED; DIMENSIONS: DIA 40 X	150		

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		LG 135 MM; INTERRUPT CAPACITY: 80 KA; CASE MATERIAL: CERAMIC; MANUF P/N: GTMF 355; FOR USE ON COMPRESSOR CIRCUIT WHICH IS SUPPLIED FROM 400V STATION BOARD				
364	0501381	RELAY: COIL VOLTAGE: 24 VDC; CONTACT RATING: 24 V DC; TERMINAL: 5 PIN; MOUNT: PLUG IN; ENCLOSURE RATING: IP65; CONTACT MATERIAL: CU; FOR USE ON CONVEYOR BELTS; WEIDMULLER MICROSERIES		150		
365	0501587	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 32 A; POLE: 1; TYPE: MINIATURE; MOUNT: PANEL; HYDRAULIC MAGNETIC		150		
366	0501588	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 20 A; POLE: 1; TYPE: MINIATURE; MOUNT: PANEL; HYDRAULIC MAGNETIC		150		
367	0501589	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 40 A; POLE: 1; TYPE: MINIATURE; MOUNT: PANEL; HYDRAULIC MAGNETIC		150		
368	0501590	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 6 A; POLE: 1; TYPE: MINIATURE; MOUNT: PANEL; HYDRAULIC MAGNETIC		150		
369	0501591	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 30 A; POLE: 1; TYPE: MINIATURE; MOUNT: PANEL; HYDRAULIC MAGNETIC		150		
370	0501592	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 5 A; POLE: 1; TYPE: MINIATURE; MOUNT: PANEL; HYDRAULIC MAGNETIC		150		
371	0501593	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 15 A; POLE: 1; TYPE: MINIATURE; MOUNT: PANEL; HYDRAULIC MAGNETIC		150		
372	0501633	FUSE: CURRENT: 16 A; MATERIAL: GLASS; POTENTIAL: 500 V; CONNECTION: PUSH IN; USE FOR HIGH CURRENT PROTECTION ON ACTUATORS		150		
373	0501634	FUSE: CURRENT: 1 A; MATERIAL: GLASS; POTENTIAL: 500 V; CONNECTION: PUSH IN; USED FOR HIGH CURRENT PROTECTION ON ACTUATORS		150		
374	0501635	FUSE: CURRENT: 30 A; MATERIAL: GLASS; POTENTIAL: 500 V; CONNECTION: PUSH IN; USE FOR HIGH CURRENT PROTECTION ON ACTUATORS		150		
375	0503090	FUSE: TYPE: HIGH SPEED; CURRENT: 10 A; MANUF P/N: 50837997; PART NBR:FWR-10A14F		150		
376	0523416	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 380 VAC; TYPE: BOTTLE; CASE MATERIAL: COPPER; MANUF P/N: UF1451-32A; FOR OVERCURRENT AND EARTH LEAKAGE PROTECTION TO THE LIFT DOOR OPERATING MOTOR		150		
377	0523417	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 380 VAC; TYPE: ULTRA FAST; CASE MATERIAL: COPPER; MANUF P/N: UF1451.16A; FOR BRAKE LIFTING DOUBLE STROKE SOLENOID EARTH LEAKAGE PROTECTION; FOR STATION LIFTS		150		
378	0523418	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 380 VAC; TYPE: ULTRA FAST; CASE MATERIAL: COPPER; MANUF P/N: UF1451-40A; FOR OVERCURRENT PROTECTION TO THE MAIN HOISTING MOTOR ON STATION LIFTS		150		
379	0523468	BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 6 A; LENGTH: 80 MM; HEIGHT: 70 MM; MOUNT: CLIP ON; MANUF P/N: NE3-6; FOR SUPPLYING & EARTH LEAKAGE PROTECTION TO THE VECTOR DRIVE & RESERVE PHASE RELAY; 3 PHASE; STATION LIFTS		150		
380	0523469	BREAKER, CIRCUIT: CURRENT: 2.6 A; POLE: 1; CLASSIFICATION: CONTROLLER; LENGTH: 80 MM; MOUNT: CLIP ON; MANUF P/N: NB1-2; FOR SUPPLYING POWER & EARTH LEAKAGE PROTECTION TO THE SAFETY CIRCUIT ON LOCKS; GOVERNOR SWITCH & PIT SWITCH; STATION		150		

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		LIFTS				
381	0523470	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 15 A; POLE: 1; LENGTH: 80 MM; HEIGHT: 70 MM; MOUNT: CLIP ON; MANUF P/N: NB1-16; FOR 220VAC SUPPLY & EARTH LEAKAGE PROTECTION FOR LIGHTS & FANS INSIDE LIFTS		150		
382	0523474	BREAKER, CIRCUIT: POTENTIAL: 110 VAC; CURRENT: 1 A; LENGTH: 80 MM; HEIGHT: 70 MM; MOUNT: CLIP ON; MANUF P/N: NB1-1; FOR SUPPLYING POWER & EARTH LEAKAGE PROTECTION TO THE CALL BUTTONS; STATION LIFTS		150		
383	0527960	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 500 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: WD 36 X LG 79 X THK 21 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LV HRC; CASE MATERIAL: CERAMIC		150		
384	0527962	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: WD 36 X LG 79 X THK 21 MM; INTERRUPT CAPACITY: 120 KA; CASE MATERIAL: CERAMIC		150		
385	0528151	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: WD 36 X LG 79 X THK 21 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LV HRC; CASE MATERIAL: CERAMIC		150		
386	0528686	SWITCH, PUSHBUTTON: COLOR: BLACK; ACTION: 2PST; CONTACT ARRANGEMENT: 2NO; CONTACT RATING: 24 V DC; APPLICATION: CONTROL; MANUF P/N: ZB2BS34; FOR SWITCHING LIFT TO ENTER HIGH OR LOW SPEED		150		
387	0528688	RELAY, CONTROL: CONTACT RATING: 110 V AC; CONTACT ARRANGEMENT: 4NO 4NC; COIL VOLTAGE: 110 VAC; ACTION: 4PDT; TERMINAL: 14 PIN; MANUF P/N: D4N110VAC; USED FOR DRIVE CONTROL ON THE PLANT LIFTS		150		
388	0528691	SWITCH: CURRENT: 6 A; CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 110 V AC; FOR LIFT STOP		150		
389	0528697	FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 500 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: WD 45 X LG 79 X HT 30 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LV HRC; CASE MATERIAL: CERAMIC		150		
390	0528701	RELAY: COIL VOLTAGE: 110 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 110 V AC; MOUNT: RAIL; MANUF P/N: BS34		150		
391	0528703	RELAY: COIL VOLTAGE: 110 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 110VAC 6A; ACTION: SP; MOUNT: CLIP RAIL; MANUF P/N: 3851.0.125		150		
392	0528706	RELAY: COIL VOLTAGE: 110 VAC; CONTACT RATING: 110 V AC; TERMINAL: 14 PIN; MOUNT: RAIL; FOR DRIVE CONTROL; ACTION 4		150		
394	0552747	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: WD 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: SLO BLO, INDICATING; CASE MATERIAL: CERAMIC; USED ON THE CIRCUIT OF MARSHALLING KIOSK		150		
395	0552762	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: WD 36 X LG 79 X HT 21 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LV HRC; CASE MATERIAL: CERAMIC		150		
396	0552763	TRANSDUCER: TYPE: DC VOLT; INPUT: 0-75 MV DC; OUTPUT: 4-20 MA; POWER SOURCE: 220VAC/DC; SPECIFICATION: KZ1-V75M-A4M-C5-4; DC LOAD 500 OHMS		150		
397	0552765	RELAY: TYPE: DIFFERENTIAL; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 220 V 10 A; ACTION: SPDT;		150		

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		TERMINAL: 7; MOUNT: PANEL; ENCLOSURE RATING: IP64; CONTACT MATERIAL: SILVER PLTD; SPECIFICATION: 12Q1518311 POS30; CASING SIZE IS 1/2 X 19 INCHES; N/O CONFIGURABLE CONTACTS; SELF CONTAINED TERMINAL; PROTECTION RELAY; DIFFERENTIAL PROTECTION; USED ON 6.6KV STATION BOARDS 1&2 (MASTER RELAYS)				
398	0555583	FUSE: CURRENT: 20 A; POTENTIAL: 690 V; MANUF P/N: W220934J; APPLICATION: STATIC EXCITATION SYSTEM		150		
399	0557948	RELAY: TYPE: PROTECTION RELAY; COIL VOLTAGE: 110V-240VAC/DC; CONTACT RATING: 10 A; TERMINAL: CAPTIVE CLAMP; ENCLOSURE RATING: 4PA0800 SCHEME; SPECIFICATION: REF541KM115BAAA; REFERENCE NO: 541KM115BA; FOR USE ON SWITCHGEAR PANELS		150		
400	0560949	RELAY: TYPE: PROTECTION; COIL VOLTAGE: 24 VDC; MOUNT: BACK; ENCLOSURE RATING: IP55; CONTACT MATERIAL: ZINC; IPT/IPC RELAY; RXMC1; 1MRK 000460-AD; RED LED; 4 MAKE CONTACTS		150		
401	0560972	RELAY: COIL VOLTAGE: 220 VDC; CONTACT RATING: 240 VAC 10 A; ACTION: SP; TERMINAL: 11 PIN; MOUNT: PUSH ON; SPECIFICATION: MT321220; 10A/250AC; N.O 5A/400VAC; AC15; VDE; 10ARES.OR1/2HP240VA CP.POLE; 10ARES.OR1/4HP 120VA CP		150		
402	0564297	RELAY: TYPE: ALARM INDICATOR; COIL VOLTAGE: 230 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 230V 12A; ACTION: DPDT; TERMINAL: 8 PIN; MOUNT: PLUG IN; ENCLOSURE RATING: IP40; CONTACT MATERIAL: AG ALLOY; SPECIFICATION: IEC 61810-1; MANUF P/N: RXM2AB2P7; 50/60HZ; FOR USE ON 25KVA UPS		150		
403	0565232	SWITCH: TYPE: EARTH; POTENTIAL: 220 VDC; CURRENT: 5 A; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: 1PST; CONTACT RATING: 250V 5A; APPLICATION: GENERATOR; MANUF P/N: HBL 00391501; USED ON GENERATOR CIRCUIT BREAKER		150		
404	0565268	RELAY: TYPE: CIRCUIT BREAKER; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 10 A; ACTION: 3PDT; TERMINAL: 14 PIN; MOUNT: SOCKET; ENCLOSURE RATING: OPEN; SPECIFICATION: HBL 02582414; INSTANTANEOUS MONOSTABLE; 4 CHANGE OVER CONTACTS; FOR USE ON GENERATOR CIRCUIT BREAKER FOR CLOSING		150		
405	0569013	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-1400 KPA; POTENTIAL: 24 VDC; CURRENT: 6 A; ACTION: SPDT; CONNECTION: FNPT 1/2 IN; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 250VAC 15A; 30VDC 6A; DIMENSIONS: WD 90 X HT 20 X THK 1.5; APPLICATION: GENERATOR TRANSFORMER; ENCLOSURE RATING: IP66; FOR USE ON UNIT 1 GENERATOR TRANSFORMER AREA		15		
406	0569031	FUSE, CARTRIDGE: CURRENT: 235 A; POTENTIAL: 690 VAC; CONNECTION TYPE: 2 HOLE; DIMENSIONS: WD 25.4 X LG 105 MM; TYPE: FAST ACTING; CASE MATERIAL: CERAMIC; SPECIFICATION: IEC269-IV(1986); MANUF P/N: GSG1000/235; FOR USE ON UPS		150		
407	0569741	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 415 V; CONNECTION TYPE: 2 HOLE; DIMENSIONS: DIA 40 X LG 135 MM; INTERRUPT CAPACITY: 80 KA; CASE MATERIAL:		150		

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		CERAMIC; REFERENCE NO: 521-3009; OVERALL LENGTH IS 135MM; TAG WIDTH IS 25.4MM; FIXING CENTER IS 111MM; CENTER BOLTED TAGS; FOR USE ON COMPRESSORS AND SWITCHGEAR ROOMS				
408	0577524	SWITCH, PRESSURE: TYPE: SPRINKLER SYSTEM; RANGE: 4.1-7 BAR; POTENTIAL: 24 VDC; CURRENT: 2 A; ACTION: (2) SPDT; CONNECTION: 1/2 IN-NPT; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 125/250VAC 10A; 30VDC 2A; DIMENSIONS: DIA 81 X WD 96 X HT 107 MM; APPLICATION: FIRE SUPPRESSION; ENCLOSURE RATING: IP55; NEMA 4; SPECIFICATION: PS10-2; MANUF P/N: 1341004; 10-60 PSI; NYLON 1/2" NPT MALE; PRESSURE INDUCED SWITCH		50		
409	0578563	PUSH BUTTON: TYPE: EMERGENCY STOP; USED ON SO3 PLANT; TWO POSITION PUSH-PULL; CONTACT NORMALLY CLOSE; RED MUSHROOM HEAD		50		
410	0579725	RELAY: TYPE: DIFFERENTIAL; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 220 V 10 A; ACTION: SPDT; TERMINAL: 7; MOUNT: PANEL; ENCLOSURE RATING: IP64; CONTACT MATERIAL: SILVER PLTD; SPECIFICATION: 12Q1518311 POS10; THE CASING SIZE IS 3/4 X 19 INCHES; FOR USE ON 6.6KV UNIT BOARDS(SLAVE RELAYS)AT UNIT 1-6		25		
411	0579726	RELAY: TYPE: PROTECTION; COIL VOLTAGE: 110-240VAC/DC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 10 A; ACTION: SPST; TERMINAL: 7 PIN PLUG IN; MOUNT: RACK; ENCLOSURE RATING: IP65; MANUF P/N: REM543BM213AAAA; FOR USE ON SWITCHGEAR FOR MOTOR PROTECTION WITH SOFTWARE NO:1MRS110023		25		
412	0583387	RELAY, CONTROL: CONTACT RATING: 6 A; CONTACT ARRANGEMENT: 2NO; COIL VOLTAGE: 340 VDC; ACTION: (2) DPDT; MOUNT: RAIL; TERMINAL: 10 SCREW; CONTACT MATERIAL: AGNI; TYPE: DC EARTH PROTECTION; MANUF P/N: ELDEC-DDCB; 10092532		25		
413	0604285	RELAY: TYPE: INCOMER; COIL VOLTAGE: 100-220 VDC; CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 100-240 V AC; ACTION: SINGLE PHASE; TERMINAL: PLUG IN; MOUNT: RACK; ENCLOSURE RATING: IP65; MANUF P/N: RET545AM251BAA; USED ON HV PANELS		25		
414	0604947	SWITCH, PUSH: HEAD STYLE: SCREW MOUNT; COLOR: BLUE; POTENTIAL: 24 VDC; CURRENT: 6 A; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; MOUNT: BRACKET BOLTED; APPLICATION: POSITION INDICATION; MANUF P/N: LSA7L/LSZ52 B; USED ON COAL BUNKERS; CONVEYOR BELT AND DISTRIBUTION CHUTES		50		
415	0606058	RELAY, CONTROL: CONTACT RATING: 250 VAC 8 A; CONTACT ARRANGEMENT: 4NO 4NC; COIL VOLTAGE: 110 VDC; ACTION: 4PDT; MOUNT: SLOT IN; TERMINAL: 14 PIN PLUG; CONTACT MATERIAL: COPPER; ENCLOSURE RATING: IP65; SPECIFICATION: D4N-110; TYPE: ELECTROMECHANICAL; USED FOR LIFTS		50		
416	0606059	RELAY, CONTROL: CONTACT RATING: 250 VAC 10 A; CONTACT ARRANGEMENT: 2NO 2NC; COIL VOLTAGE: 110 VAC; ACTION: 2P2DT; MOUNT: SLOT IN; TERMINAL: 8 PIN;		50		

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		CONTACT MATERIAL: COPPER; ENCLOSURE RATING: IP65; TYPE: ELECTROMECHANICAL; USED ON THE LIFT EQUIPMENT				
417	0606060	RELAY, CONTROL: CONTACT RATING: 400 VAC 10 A; CONTACT ARRANGEMENT: 1NO 1NC; COIL VOLTAGE: 110 VAC; ACTION: SPDT; MOUNT: PLUG IN; TERMINAL: 11 PIN; CONTACT MATERIAL: COPPER; ENCLOSURE RATING: IP44; SPECIFICATION: SPR3; TYPE: ELECTRONIC; USED ON LIFT EQUIPMENT AS A REVERSE PHASE		50		
418	0606061	PUSH BUTTON: TYPE: LIFTS; MANUF P/N: SSM9400-01; USED TO CONTROLL THE LIFT/ELEVATOR		50		
419	0610188	SWITCH, DISCONNECT: TYPE: FUSED LOAD BREAK; POTENTIAL: 690 VAC; CURRENT: 630 A; ACTION: 3P; MOUNT: PANEL; APPLICATION: SWITCHGEAR; SPECIFICATION: IEC 60947-1/60947-3; DIN VDE 0660 TEIL 107; FOR USE ON SWITCHGEAR AT 400V STATION BOARD		50		
420	0631212	ISOLATOR: TYPE: FUSED; APPLICATION: ELECTRICAL BUCKET; MATERIAL: PLASTIC; POTENTIAL: 1000 V; SPECIFICATION: IEC 60947-3 IEC 60269; SWITCH DISCONNECTOR; 3 PHASE; BS 88-2 TYPE A2-A3 (MAX); T15/05; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).		50		
421	0635968	METER, ENERGY MONITORING: TYPE: GENERATOR; DIMENSIONS: LG 202.6 X HT 132.4 MM; ACCURACY: CL 0.2 S; POTENTIAL: 220 V; DISPLAY TYPE: DIGITAL; RADIO FREQUENCY INTERFERENCE: 50 HZ; OPERATING TEMPERATURE: 21 DEG C; STORAGE TEMP RANGE: 21 DEG C; PROTECTION: LEVEL; SPECIFICATION: RACK MOUNT; SPECIFICATION: ZMQ202C.6R4AF6E22		50		
422	0638048	BREAKER, CIRCUIT: SWITCHGEAR DESIGN: RACK IN; POTENTIAL: 400- 600 VAC; CURRENT: 630 A; SHORT TIME CURRENT: 50 KA; POLE: 3; CONTROL VOLTAGE: 4 KV; POINT ON WAVE: AUTOMATIC; CREEPAGE: 100 MM; BASIC INSULATION LEVEL: 1.25 KA; INSULATION MATERIAL: CERAMIC/PE; OPERATING CONTROL TYPE: RELAY; POLLUTION CLASS: PVC INSULATION; APPLICATION: SWITCHGEAR; CLASSIFICATION: INDOOR APPLICATION; SPECIFICATION: IEC 947-1; FRAME: 406179MS31W06-A; TEMPERATURE RATING: -5 TO 45 DEG C; WIDTH: 330 MM; LENGTH: 400 MM; HEIGHT: 370 MM; COLOR: WHITE; TYPE: MCB; MOUNT: DIN RAIL; PHASE SPACING: 63.7 MM; INTERRUPT CAPACITY: 50 KA; SPECIFICATION: 406179MS31W06-A		10		
423	0638049	BREAKER, CIRCUIT: SWITCHGEAR DESIGN: RACK IN; POTENTIAL: 400 V; CURRENT: 1.25 KA; SHORT TIME CURRENT: 50 A; POLE: 3; CONTROL VOLTAGE: 4 KV; POINT ON WAVE: AUTOMATIC; CREEPAGE: 100 MM; BASIC INSULATION LEVEL: 1.25 KA; INSULATION MATERIAL: CERAMIC/PE; OPERATING CONTROL TYPE: RELAY; POLLUTION CLASS: PVC INSULATION; APPLICATION: SWITCHGEAR; CLASSIFICATION: INDOOR APPLICATION; SPECIFICATION: IEC 947-1; FRAME: 406179MS31W06-A; TEMPERATURE RATING: -5 TO 45 DEG C; WIDTH: 330 MM; LENGTH: 400 MM; HEIGHT: 370 MM; COLOR: WHITE; TYPE:		10		

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		MCB; MOUNT: DIN RAIL; PHASE SPACING: 63.7 MM; INTERRUPT CAPACITY: 50 KA; SPECIFICATION: 406179MS31W06-A				
424	0663556	SWITCH, PULL: TYPE: CONVEYORS; POTENTIAL: 600 V; CURRENT: 10 A; CONTACT ARRANGEMENT: SINGLE BELT TRIP; ENCLOSURE RATING: IP66; APPLICATION: SINGLE END CONVEYOR; SPECIFICATION: SANS 60079-0; 60079-1; SUPPL P/N: CHW53198; MAX PILOT DUTY DUST IGNITION PROOF FOR METALLIC & NON-METALLIC DUSTS CLASS 2 DIV 1 & 2; IEC 60947-5-1		150		
425	0666344	FUSE, CARTRIDGE: CURRENT: 120 A; POTENTIAL: 690VAC/500VDC; CONNECTION TYPE: STUD; DIMENSIONS: LG 94 MM; TYPE: HIGH SPEED; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; MANUF P/N: 120FEE		150		
426	0687979	RELAY: TYPE: PROTECTION; COIL VOLTAGE: 240 V; CONTACT ARRANGEMENT: 1 NC; CONTACT RATING: 1 A; TERMINAL: 54; MOUNT: PANEL; ENCLOSURE RATING: IP54; CONTACT MATERIAL: SILVER ALLOY; SPECIFICATION: IEEE AND IEC; 3 PHASE		20		
427	0704667	BREAKER, CIRCUIT: SWITCHGEAR DESIGN: DISTRIBUTION BOARD; POTENTIAL: 230 VAC; POLE: SINGLE; CONTROL VOLTAGE: 220 VAC; OPERATING CONTROL TYPE: LEVER; APPLICATION: FIRE PANEL PROTECTION; SPECIFICATION: NFPA 72; TEMPERATURE RATING: -25 TO 55 DEG C; WIDTH: 17.5 MM; LENGTH: 71 MM; HEIGHT: 92 MM; COLOR: MARKED IN RED, RED LEVER; TYPE: MCB; MOUNT: DIN RAIL 35 MM; INTERRUPT CAPACITY: 10 KA 3 CYCLES AT 600 V		50		
428	0723227	TRANSDUCER: TYPE: MAGTROL DISPLACEMENT; INPUT: 13/11/100 MM; OUTPUT: 4-20 MA; POWER SOURCE: 20-32 V DC; APPLICATION: HP CONTROL CV SERVOMOTOR; OEM P/N: 5161-374, OEM: GE STEAM POWER SERVICE; CAT NO: B42.51600-0187; REFERENCE NO: SZ50013890		300		
429	0728827	FUSE: CURRENT: 350 A; MATERIAL: CERAMIC; POTENTIAL: 690 V; CONNECTION: BOLT DOWN; DIMENSIONS: WD 28.8 X LG 105 X HT 47 X THK 28.8 MM; SPECIFICATION: IEC60269-4; OEM P/N: 2018920.350, OEM: SIBA FUSES (PTY) LTD SA; FUSES USED FOR INLINE HEATER THYRISTOR DRIVE USED AT LP OIL PLANT		300		
430	239576	BKR:RACK IN; 400-600 VAC;800 A;3;50 KA; GE(AEG) M-PACT Plus Air circuit breaker MS31W08		25		
431	237410	BKR:400-600 VAC;1 KA;3;50 KA; GE(AEG) M-PACT Plus Air circuit breaker MS31W10		25		
432	238304	MM2 - LV Motor Protection IED - 400VAC Motor		25		
433	247450	F650 - Bay Controller IED - 400V Bus-Section PART NO/MODEL: F650MFBF1G0HI		25		
434	560949	DC Relay - IPC/IPT - 24VDC		25		
435	560972	DC Relay - Boiler Trip Relay		25		
436	238538	DC Relay - Aux - 220VDC		25		
437	238539	DC Relay - Aux - 220VDC Chop-over		25		
438	238540	DC Relay - DC Fail Relay		25		

439	253845	"THERMOSTAT: TYPE: OIL HEATER; CURRENT: 15/7.5A AC; 0.1A DC A; SPECIFICATION: ACS/0313; REQUIRED TO CONTROL OIL TEMPERATURE ON L.P.FUEL OIL PLANT; RANGE: 0-160 DEGREE CENTIGRADE; DIMENSIONS: 260 MILLIMETER; POTENTIAL: 250/440VAC; 250VDC	50		
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PART 3: SCOPE OF WORK

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C3.2	<i>Contractor's Service Information</i>	0
	Total number of pages	

C3.1: EMPLOYER’S SERVICE INFORMATION

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1.1 Introduction

The switchgears installed at Grootvlei Power Station are of the floor mounted metal clad, modular design with groups of circuits contained in their own metal enclosed compartment (called a tier). They were commissioned between 01/2008-01/2011. The Original Equipment Manufacture for the installed Low Voltage (LV) Switchgears is General Electric (GE), ABB acquired GE Industrial Solutions in 2018. This means that there are no more services, technical support and spares support from GE for the low voltage switchgears at Grootvlei Power station.

This document therefore specifies the scope of work that will be an input for the contract for the Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station between Eskom Grootvlei power Station and the contractor for a period of 5 years.

1.2 Supporting clauses

The *Contractor* is responsible for the following scope:

1.2.1 Scope of work:

This scope of works (SOW) details the Supply, delivery and service/repair/ refurbishment of GE SA Plus LV Switchgears at Grootvlei Power Station, including the supply of parts and consumables required for these assets.

Work to be performed as follows:

Services:

COMPONENT DESCRIPTION	ACTIVITY TYPE (INSPECTION / TEST / REFURBISH / REPLACE)	WORK SPECIFICATIONS	Frequency within 5 years
Breaker	Inspection	•Strip and assess •Provide assessment report •Provide a quote	100
	Transportation	•Collect the breaker for strip and assessment from Grootvlei Power Station to contractor workshop. •Deliver the breaker at Grootvlei Power Station once repaired/refurbished.	36
	Refurbish	•Repair the breaker as per the assessment report	50
	Test (Commissioning at Contractor workshop)	Perform and provide signed test certificates and check sheets for the following; •Functional checks -Operate mechanism (open and close), racking in and out operation •Verify interlocks •Speed checks •Voltage pickup on trip and close coils. •Breaker trip range •Breaker main contact resistance •Pressure Test	50
	Supply	•ACB breaker and its components	100
	Retrofit	•Supply equivalent ACB •Supply new drawings for commissioning •Test and commission the	10

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required

		new ACB (SAT)	
Breaker – Shutters and Spouts	Replace/supply	Replace the shutters or spouts	15
Protection (Relays)	Inspection	•Assessment of protection relays •Testing of relays •Strip and assess •Provide assessment report •Provide a quote	30
	Transportation	•Collect the relay for strip and assessment from Grootvlei Power Station to supplier workshop •Deliver the relay at Grootvlei Power Station once repaired	15
	Refurbish	•Refurbish according to the assessment report	15
	Commission	•Configuration •Commission the relay	15
	Supply	•Supply relays (specified under critical spares)	
	Retrofit	•Supply equivalent Relay •Supply new drawings for commissioning •Test and commission the new Protection Relay (SAT)	10
Busbar earthing switch	Inspect	•Inspect contact blades for wear, conductor condition and lubricate moving parts.	15
Panel doors	Repair	•Provide report and warranty	15
	Replace	•Replace	15
Fuses/ contactors	Replace	•Replace	15
Training	Training of employees	LV Switchgear Training	40 People

Supply and delivery:

Please refer to Annexure B in the Scope of Work

1.2.2 Purpose:

The purpose of this scope of work is to specify the requirements and specifications of Supply, delivery and service/repair/ refurbishment of GE SA Plus LV Switchgears at Grootvlei Power Station. This SOW is an input to the commercial process to acquire the goods and services necessary to fulfil the requirements of this SOW. This SOW further aids in establishing the level of detail necessary to be included in the Quality Control Plans (QCP) which are essential for providing assurance that the service provider executes this scope according to the requirements specified herein.

1.2.3 Applicability:

This document shall apply to all Supply, delivery and service/repair/ refurbishment of GE SA Plus LV Switchgears at Grootvlei Power Station.

1.2.4 NORMATIVE/INFORMATIVE REFERENCES

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

1.2.41 Normative

- [1] ISO 9001 Quality Management Systems
- [2] 240-62044728 Eskom Standard Conditions of Tender
- [3] 32-726 Contract and Contractor Management Standard
- [4] 240-105658000 Eskom Supplier Quality Management: Specification
- [5] Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)
- [6] 36-681 Generation Plant Safety Regulations
- [7] 240-56227573 Air-Insulated Withdrawable AC Metal-Enclosed Switchgear Control-gear for 1kV to 52kV (Rev 1)
- [8] 240-56357424: MV & LV Switchgear Protection Standard
- [9] 240-56227516: LV Switchgear and Control Gear Assemblies and Associated Equipment for Voltage up to and Including 1000V AC and 1500V Standard

1.2.4.2 Informative

- [10] GVL 0736 LV Switchgear Contract Scope of Work
- [11] GVL 0737 LV Switchgear contract - Technical Evaluation Strategy GVL
- [12] 32-727 Safety, Health, Environment and Quality (SHEQ) Policy
- [13] 32-1034 Eskom Procurement and Supply Chain Management Procedure
- [14] GVL 0652 Low Risk Specification for Coal Stations LV Switchgear Assemblies Components Draft
- [15] OHS Tender Evaluation Template low risk work 2
- [16] 240-12248652 (Rev 7) List of Tender Returnables - LV Switchgear
- [17] 240-68099512 (Rev 9) Form A Tender & Contract - LV Switchgear
- [18] 240-105658000 Supplier Quality Management Specification
- [19] 39-98 Safe Use of Lifting Machines and Lifting Tackle Standard
- [20] 240-109253302 Quality Control Plan or Inspection Test Plan (QCP or ITP) rev 2
- [21] 240-109253698 Contract Quality Plan (CQP) Template
- [22] 240-84513751 Material Specification and Certification Guideline for Power Generation Plant
- [23] National Key Point Act, 1980 (Act No. 102 of 1980)
- [24] GVLF 0183 Environmental Evaluation Form

1.3 Interpretation and terminology

The following abbreviations are used in this Service Information:

Abbreviation	Description
ABB	Asea Brown Boveri.
AKZ	Anlagen Kenn Zeichnungs
BOQ	Bill of Quantities
CoC	
EMD	Electrical Maintenance Department
GE	General Electric
LV	Low Voltage
NEC	New Engineering Contract
OHSA	Occupational Health and Safety Act
PPE	Personal Protective Equipment
PTW	Permit To Work
QA	Quality Assurance

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QC	Quality Control
QCP	Quality control program/plan/procedure
RO	Reverse Osmosis
SA	South Africa
SHE	Safety, Health & Environmental
SHEQ	Occupational Safety, Health, Environmental, and Quality
SOW	Scope of Work
AVR	Automatic Voltage Regulator
AC	Alternative Current
KV	Kilovolts
MV	Medium Voltage

1.4 Definitions

Definition	Description
Employer	Eskom Holdings SOC Ltd, Grootvlei Power Station, or representatives/staff of Eskom Holdings SOC Ltd or Grootvlei Power Station.

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Employer Requirements Meeting	A kick-off meeting held after or concurrently with the Witness of Stripping meeting where the Service Provider clarifies all the user requirements of the Client. This meeting will also serve to clarify any ambiguity or apparent contradictions between the actual SOW which needs to be executed and this SOW.
Service Provider	The supplier company who receives purchase order(s) from the Client to execute this SOW.
Service Manager.	The Client representative nominated in this SOW who will be the primary point of contact of the Client for the Service Provider.
Witness of Stripping Meeting	A meeting held directly after or during the stripping of the defective assembly, or components which needs to be repaired, refurbished, or replaced. The purpose of this meeting is for stakeholders to agree which components may be reused, must be replaced and/or repaired/refurbished. This meeting must be initiated by the Service Provider. The Service Provider must notify the Eskom Service Manager at least 48 hours prior to the stripping of the defective assembly, or components, of the details of the meeting.

1.4.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2. Management strategy and start up.**2.1 The Contractor's plan for the service**

An assessment of work done will be conducted as per task order. If agreed, the *Contractor* will invoice the *Employer* within 7 days after delivery of the Mill Pneumatic Cylinders and Pneumatic Loading System Control Cabinets onsite. The *Contractor* shall submit the invoice with the agreed amount to the Accounts Payable Section.

In case of emergency the *Contractor* will be informed telephonically, and he/she will be required to respond within a day.

Execution program will be required before commencement of work for showing milestones and delivery date of the Mill Pneumatic Cylinders and Pneumatic Loading System Control Cabinets. Quality Control Plan to be developed and approved before any work can commence to ensure that inspections are regularly done for each milestone. The *Employer* will determine to the *Contractor* the intervals; these will only be undertaken in accordance with the relevant Eskom Standard, original equipment manufacturer standard and applicable national standards. The *Contractor* then will be required to submit a plan that will show the dates on which the job will be executed, the job description and the equipment number. This must be submitted once as and when required (starting when the work begins) with all the dates of that scope and if there are any changes the plan will be edited and re-submitted to the *Employer's* Representative immediately after the changes has been made. This type of a document will be kept in the system by both parties and each party will have a signed copy that will be kept in the file.

2.2 Management meetings

There will be a progress meeting that will be held at *Contractor's* premises or MS teams and the *Contractor* will issue a progress report to Grootvlei Power Station. This meeting can be used to discuss progress on repairs, risks on delivery dates, and other matters of general nature. The following minimum information must be contained in the progress report:

- Repairs undertaken.
- Findings after strip and assessment.

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- Inspection findings
- Delivery dates
- Risks

The *Contractor* will include other items in the report that may be of interest to Grootvlei Power Station.

If the *Contractor* delays on doing the task that will be given by the *Employer*, the *Contractor* will be penalised for any delays as captured on X17 table. The *Contractor* will be informed about the penalty in a form of writing and if this happens repeatedly a meeting will be arranged immediately whereby an early warning that will be in writing will be given to the *Contractor*.

Service Manager will chair these meetings as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Kick off meeting	Once off after contract placement	Grootvlei Power Station/MS Teams	<i>Employer, Contractor</i>
Risk Register and compensation events	As and when required	Grootvlei Power Station/MS Teams	<i>Employer, Contractor</i>
Contract progress and feedback	As and when required	Grootvlei Power Station/MS Teams	<i>Employer, Contractor</i>
Workshop visit	Monthly, if there's items out for refurbishment	Contractors Premises	<i>Employer, Contractor</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Service Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *service*. Records of these meetings shall be submitted to the *Service Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

All meetings held on MS Teams will also be recorded on MS Teams and the recording will be made available upon request.

2.3 Contractor's management, supervision and key people

Contractor's Management shall be available for all meetings related to this contract whenever a need arises. The *Contractor* must have always at least two (2) representatives.

- *Contractor* representative (2)
- *Service Manager*

2.4 Documentation control

The *Contractor* shall provide the following documentation:

- Program plan for refurbishment and supply.
- Quality control plan.
- Summary of work done.
- Estimated time duration regarding the future work required.

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- All other tests conducted such as inspection report, certificate of conformance and material analysis certificate for journal bearings.
- Failure reports on equipment sent out for refurbishment.
- Data books completion and submissions as per Eskom standard and requirements please refer to 2401-105658000 section 3.5.10.1 for contractor's responsibilities with regards to Data Books.

And all other related documents that may be required by the *Service Manager*.

2.5 Invoicing and payment

Within one week of receiving a payment certificate from the *Service Manager* in terms of core clause 51.1, the *Contractor* provides the *Employer* with a tax invoice showing the amount due for payment equal to that stated in the *Service Manager's* payment certificate.

The *Contractor* shall address the tax invoice to

and include on each invoice the following information:

- Name and address of the *Contractor* and the *Service Manager*;
- The contract number and title;
- *Contractor's* VAT registration number;
- The *Employer's* VAT registration number 4740101508;
- Description of service provided for each item invoiced based on the Price List;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- (add other as required)

Add procedures for invoice submission and payment (e. g. electronic payment instructions)

2.6 Contract change management.

For any additional or reduction of scope of work, correct process shall be followed. The *Contractor* shall inform the *Employer* of any deviations.

2.7 Things provided at the end of the service period for the Employer's use.

The following *works* are provided by the *Contractor* in accordance with the *Service Information*:

- All the Quality Documentation signed off with no outstanding actions to be resolved.
- At Completion, the Contractor submits all technical documentation for the works in accordance with the Employer's documentation requirements.
- Completion takes place after the Service Manager has verified the submitted documents.
- Data packs on delivery including all relevant documents.

2.7.1 Information and other things

Contractor to communicate with *Employer* in time for any risks that arises.

2.8 Management of work done by Task Order

- A task order will be issued per activity to the *Contractor* by the *Service Manager*, for work that needs to be done.

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required

- The *Contractor* must accept the Task Orders by signing it and returning a copy thereof to the *Employer*.
- An assessment will be carried out to verify the completion of the tasks as per the Task Order.
- The *Contractor* can then create an invoice to the *Employer* and send it directly to Finance Department - APS section, to facilitate payment.
- All work done is valued in accordance with the Price List unless otherwise specified.
- Actual quantities will be determined where applicable based on the requirements of each Task Order.
- The *Contractor* provides all necessary information required by the *Employer* to determine the cost at the assessment date for each Task Order.

3. Health and safety, the environment and quality assurance

3.1 Health and safety risk management

The Contractor shall adhere to all OHS Legal requirements, OHS corporate policies, standards and procedures to which Eskom subscribes and as indicated on the issued SHE specification.

The Contractor shall, when coming on site (Grootvlei Power Station), abide by the Lifesaving Rules. These will be provided by the Employer on the start of the contract.

The Contractor shall also abide by the Grootvlei High risk Safety, Health and Environmental Specifications 240-73418055, which will also be provided by the Employer.

The Contractor shall, when coming on site (Grootvlei Power Station), make use of approved personal protective clothing such as overalls, safety shoes, safety hat, safety goggles, dust mask and gloves when necessary.

The Employer follows an Incident management procedure (32-95) that includes the investigation of all accidents involving personnel and property. This is done with the intention of introducing control measures to prevent a recurrence of the same incidents. The Contractor is expected to fully co-operate to achieve this objective. The Contractor will report any incident and accidents to Grootvlei Power Station within 24 hours or before end of shift. This report does not relieve the Consultant of his legal obligation to report certain incidents to the Department of Labour, or to keep records in terms of the Occupational Health and Safety Act, and Compensation for Occupational Injuries and Diseases Act.

The Contractor implements a safety plan and maintains the safety system until the completion of the whole of the works. The plan, will as a minimum, contain PPE information, written safe work procedures, job specific risk assessments, safety meetings, etc. The plan will be to the Employer's satisfaction and will be accepted prior to the commencement of any work.

The Contractor will be subject to periodic audits by the Employer to ensure compliance with the plan. Any deviations will be corrected to the Employer's satisfaction.

The Service Manager has the right to stop the Contractor's work activities which, in the opinion of Service Manager, is un-safe. The Contractor may only continue with work activities when all safety deficiencies have been corrected to the Service Manager's satisfaction. The Contractor shall have no claim against the Employer in respect of delay due to the above.

The Contractor shall comply with the health and safety requirements contained in the contract tender package (j) The *Contractor* allocates staff to be trained and authorised as Responsible Persons according to *Employer's* Plant Safety Regulations and/or High Voltage Regulations. These Responsible Persons must be available on Site as and when required to take out permits to work.

3.2 Environmental constraints and management

The contractor and or supplier shall have a documented and implemented environmental management system e.g. environmental policy, operational procedures relating to their activities, aspects/impacts register etc.

The contractor shall comply with all Eskom Grootvlei Power Station environmental requirements such as policies, standards and procedures (work instructions). Non-conformance, incident reporting and investigations shall be done by the contractor. Polluter pays principles shall apply to all *Contractors*. It is the

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required

responsibility of the polluter to clean all spillages and for the rehabilitation of the polluted land and the cost associated with that.

Eskom Grootvlei Power Station shall issue non-conformances where there are deviations from Grootvlei Power Station Procedures and any other environmental requirements. Adherence to the 'Duty of Care' as stipulated in section 28 of the National Environmental Management Act 107 of 2008.

All incidents shall be managed according to Eskom Environmental incident management procedure-**240-133087117**; Station Waste management procedure and colour coding shall be always adhered to.

Policy, Leadership and Commitment

- a) The contractor shall comply with all Eskom Grootvlei Power Station environmental requirements such as policies, standards and procedures (work instructions).
- b) The contractor shall appoint personnel in writing with basic Environmental knowledge who will have the responsibilities of implementing all environmental/SHE requirements on a specific contract.
- c) Station Waste Management Procedure and colour coding shall be always adhered to.
- d) Ensure that all Environmental Requirements are communicated to relevant employees.
- e)

Legal and Other Requirements

- a. Adherence to the 'Duty of Care' as stipulated in section 28 of the National Environmental Management Act 107 of 2008.
- b. Adherence to applicable Environmental legislations, licenses and permits and other requirements.

Aspects, Impacts, Objectives and Targets

- a. The contractor shall ensure that all aspects and impacts that can result in negative impacts on the environment through their operations are identified and documented.
- b. Objectives and targets shall be established for aspects and impacts that are deemed to be significant. These objectives and targets will need to be documented and conveyed to all contractor personnel.

Incident Reporting and Investigation

- a. All incidents shall be managed according to Eskom Environmental incident management procedure-**240-133087117**.
- b. Polluter pays principles shall apply to all *Contractors*. It is the responsibility of the polluter to clean all spillages and for the rehabilitation of the polluted land and the cost associated with that.

Monitoring and Review

- a. Client personnel will conduct regular environmental audits. Contractors are expected to participate and ensure that corrective actions are executed.
- b. Eskom Grootvlei Power Station shall issue non-conformances where there are deviations from Grootvlei Power Station Procedures and any other environmental requirements.
- c. All environmental system documentation, records, reports etc. shall be made available for review when requested.

3.3 Quality assurance requirements

The *Contractor* shall be required to demonstrate by means of a Contract Quality Plan (CQP) that this organisation is so structured that all the requirements of the specification will be properly monitored and controlled. The Contract Quality Plan (CQP), which must include the Quality Control Plan (QCP), is to be drafted in accordance with (240-105658000) and the Supplier Contract Quality Requirement Specification (240-105658000).

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required

No work may commence unless the Contract Quality Plan and Quality Control Plan documents have been approved in writing and a copy submitted to the *Employers* Representative. The *Contractor*, in conjunction with the *Employers* Representative must sign off all Quality Control documents after completing all work as per the agreed scope.

The *Contractor* shall be required to read and fully understand the contents of the Supplier Contract Quality Requirement Specification (240-10565800) and a copy is to be kept in possession or on premises. The *Contractor* shall be subjected to scheduled assessments/audits if Eskom deems it necessary.

The Supplier Contract Quality Requirement Specification (240-105658000) shall remain applicable in the event of the contract being extended or modified for reasons permitted.

By signature and acceptance of this contract the *Contractor* acknowledges and agrees to comply with and adhere to Eskom's policies and procedures (current and/or latest revisions) including the Supplier Contract Quality Requirement Specification (240-105658000).

4. Procurement

4.1 People

4.1.1 Minimum requirements of people employed.

The *Contractor* provides the *Employer* with a direct person to deal with, in terms of this contract, should this person be replaced, such information will be conveyed to the *Employer*.

4.2 Subcontracting

4.2.1 Preferred subcontracting

SDL&I Obligations:

Job creation	TBC
Job retained	TBC
Skills development	TBC

CSI Commitment -2%

This 2% will be for work performed in Grootvlei area and not the total of the contract value. The 2% will only apply to physical work performed on site.

4.3 Plant and Materials

4.3.1 Specifications

The *Contractor* will be responsible to collect, to refurbish Mill Pneumatic Cylinders and Pneumatic Loading System Control Cabinets and deliver the refurbished components at the *Employer's* premises.

4.3.2 Correction of defects

Contractor will be notified of defects, and they will be required to come to site for collecting the Mill Pneumatic Cylinders and Pneumatic Loading System Control Cabinets to their premises to strip and assess then do repairs.

Supply, Delivery and Service/Repair/Refurbishment of GE SA Plus LV Switchgear Assemblies/Components installed at Grootvlei Power Station. As and when required**4.3.3 Tests and inspections before delivery**

The equipment shall be tested, and all tests/inspection certificates shall be provided. The report shall be provided after testing and QCP documents shall be signed off.

5 Working on the Affected Property**5.1 Employer's site entry and security control, permits, and site regulations.**

The *Contractor* shall be required to undergo site induction to gain access to site. The affected site is Grootvlei Power Station.

Site Regulations

Note that the speed limit on site is 40 Km/h. The vehicle permit of any persons contravening any traffic act on site is cancelled.

The *Contractor* complies with the Grootvlei Site Regulations, a copy of which is available for perusal at the *Service Manager's* offices.

5.2 Tests and inspections**5.2.1 Description of tests and inspections**

Engineering, Maintenance and Quality Departments will be available for any inspection and tests scheduled for the Mill Pneumatic Cylinders and Pneumatic Loading System Control Cabinets.

The following route will be followed:

Whenever there are pumps to be refurbished, the *Employer* will inform the *Contractor* to collect those components. The *Contractor* will strip the pumps, assess and issue failure report and send to the *Employer*. The report will be accompanied by a quote for the whole works.

The *Employer* will send a Quality Check Plan to the *Contractor* which will indicate where the hold and witness points will be. The QCP will be signed by the System Engineer and send back to the *Contractor*.

If the pumps are found to be defective after installation, the components will be taken back by the *Contractor* to their premises to correct the defects at the *Contractor's* expense.