



## NEC3 Supply Contract (SC3)

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

and **[Insert at award stage]**  
(Reg No. \_\_\_\_\_ )

for **Supply and delivery of various stock items Electrical  
spares for 5 years**

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**Contents:**

**No of  
pages**

**Part C1 Agreements & Contract Data**

**[•]**

**Part C2 Pricing Data**

**[•]**

**Part C3 Scope of Work**

**[•]**

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**CONTRACT No. [Insert at award stage]**

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## PART C1: AGREEMENTS & CONTRACT DATA

Contents:	No of pages
<b>C1.1 Form of Offer and Acceptance</b>	<b>[•]</b>
[to be inserted from Returnable Documents at award stage]	
<b>C1.2a Contract Data provided by the <i>Purchaser</i></b>	<b>[•]</b>
<b>C1.2b Contract Data provided by the <i>Supplier</i></b>	<b>[•]</b>
[to be inserted from Returnable Documents at award stage]	
<b>C1.3 Proforma Guarantees</b>	<b>[•]</b>

### C1.1 Form of Offer & Acceptance

#### Offer

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

#### Title of the Contract

The tenderer, identified in the Offer signature block, has

<i>either</i>	examined the documents listed in the Tender Data and addenda thereto as listed in the Returnable Schedules, and by submitting this Offer has accepted the Conditions of Tender.
<i>or</i>	examined the draft contract as listed in the Acceptance section and agreed to provide this Offer.

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 *Supplier* 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.

	The offered total of the Prices exclusive of VAT is	<b>R [•]</b>
	Value Added Tax @ 15% is	<b>R [•]</b>
	The offered total of the amount due inclusive of VAT is <sup>1</sup>	<b>R [•]</b>
	(in words) <b>[•]</b>	

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

This Offer may be accepted by the Purchaser 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 *Supplier* 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

## Acceptance

By signing this part of this Form of Offer and Acceptance, the Purchaser identified below accepts the tenderer's Offer. In consideration thereof, the Purchaser shall pay the Supplier 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 Purchaser 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: Goods Information including Supply Requirements

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 Purchaser 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 Purchaser'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  
Purchaser**

**Eskom Holdings SOC Ltd, Megawatt Park, Maxwell Drive, Sandton, Johannesburg,  
2199**

*(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.

## Schedule of Deviations to be completed by the *Purchaser* prior to contract award

Note:

1. This part of the Offer & Acceptance would not be required if the contract has been developed by negotiation between the Parties and is not the result of a process of competitive tendering.
2. The extent of deviations from the tender documents issued by the Purchaser prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
3. A tenderer's covering letter must not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid be the subject of agreement reached during the process of Offer and Acceptance, the outcome of such agreement shall be recorded here and the final draft of the contract documents shall be revised to incorporate the effect of it.

No.	Subject	Details
1	[•]	[•]
2	[•]	[•]
3	[•]	[•]
4	[•]	[•]
5	[•]	[•]
6	[•]	[•]
7	[•]	[•]

By the duly authorised representatives signing this Schedule of Deviations below, the Purchaser and the tenderer agree to and accept this Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules, as well as any confirmation, clarification or changes to the terms of the Offer agreed by the tenderer and the Purchaser during this process of Offer and Acceptance.

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 tenderer:	For the Purchaser
Signature	_____	_____
Name	_____	_____
Capacity	_____	_____
On behalf of	(Insert name and address of organisation)	<b>Eskom Holdings SOC Ltd, Megawatt Park, Maxwell Drive, Sandton, Johannesburg, 2199</b>
Name & signature of witness	_____	_____
Date	_____	_____

## C1.2 SC3 Contract Data

### Part one - Data provided by the *Purchaser*

[Instructions to the contract compiler: (delete these two notes in the final draft of a contract)]

1. Please read the relevant clauses in the conditions of contract before you enter data. The number of the clause which requires the data is shown in the left hand column for each statement however other clauses may also use the same data.
2. Some SC3 options are always selected by Eskom Holdings SOC Ltd. The remaining SC3 options are identified by shading in the left hand column. In the event that the option is not required select and delete the whole row. Where the following symbol is used "[•]" - data is required to be inserted relevant to the specific option selected.]

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

Clause	Statement	Data
1	<b>General</b>	
	The <i>conditions of contract</i> are the core clauses and the clauses for Options	
		X1: Price adjustment for inflation
		X2: Changes in the law
		X7: Delay damages
		Z: <b>Additional conditions of contract</b>
	of the NEC3 Supply Contract (April 2013) <sup>2</sup>	(If the December 2009 edition is to be used delete April 2013 and replace by December 2013)
10.1	The <i>Purchaser</i> is (name):	<b>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</b>
	Address	<b>Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg</b>
	Tel No.	[•]
	Fax No.	[•]

<sup>2</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902, [www.ecs.co.za](http://www.ecs.co.za).

10.1	The <i>Supply Manager</i> is (name):	[•] M C Khoza												
	Address	[•] Duvha Power Station												
	Tel	[•] 013 690 0321												
	Fax	[•]												
	e-mail	[•] Khozamc@eskom.co.za												
11.2(13)	The <i>goods</i> are	[•]												
11.2(13)	The <i>services</i> are	[•]												
11.2(14)	The following matters will be included in the Risk Register	[•]												
11.2(15)	The Goods Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.												
11.2(15)	The Supply Requirements as part of the Goods Information is in	Annexure A to this Contract Data												
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	[•] 2 weeks												
2	<b>The <i>Supplier's</i> main responsibilities</b>	Data required by this section of the core clauses is provided by the <i>Supplier</i> in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.												
3	<b>Time</b>													
30.1	The <i>starting date</i> is.	[•]												
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	<table> <thead> <tr> <th></th><th><i>goods and services</i></th><th><i>delivery date</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>[•]</td><td>[•] Within Two weeks</td></tr> <tr> <td>2</td><td>[•]</td><td>[•]</td></tr> <tr> <td>3</td><td>[•]</td><td>[•]</td></tr> </tbody> </table>		<i>goods and services</i>	<i>delivery date</i>	1	[•]	[•] Within Two weeks	2	[•]	[•]	3	[•]	[•]
	<i>goods and services</i>	<i>delivery date</i>												
1	[•]	[•] Within Two weeks												
2	[•]	[•]												
3	[•]	[•]												
30.2	The <i>Supplier</i> does not bring the <i>goods</i> to the Delivery Place more than one week before the Delivery Date.	[no data required]												
31.1	The <i>Supplier</i> is to submit a first programme for acceptance within	[•]2 weeks of the Contract Date.												
32.2	The <i>Supplier</i> submits revised programmes at intervals no longer than	[•]2 weeks.												

<b>4</b>	<b>Testing and defects</b>	
42	The <i>defects date</i> is	[•]1 weeks after Delivery.
43.2	The <i>defect correction period</i> is	[•]1 weeks
	except that the <i>defect correction period</i> for	[•]1 is [•]1 weeks
	and the <i>defect correction period</i> for	[•]1 is [•]1 weeks
42.2	The <i>defects access period</i> is	[•]2 days
	except that the <i>defect access period</i> for	[•] is [•]
	and the <i>defect access period</i> for	[•] is [•]
<b>5</b>	<b>Payment</b>	
50.1	The <i>assessment interval</i> is	between the [•]30 day of each successive month.
51.1	The <i>currency of this contract</i> is the	South African Rand
51.2	The period within which payments are made is	[•]2 weeks.
51.4	The <i>interest rate</i> is	<p>the publicly quoted prime rate of interest (calculated on a 365 day year) charged 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</p> <p>(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted <i>mutatis mutandis</i> every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.</p>
<b>6</b>	<b>Compensation events</b>	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.
<b>7</b>	<b>Title</b>	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.



## 8 Risks, liabilities, indemnities and insurance

80.1	These are additional <i>Purchaser's</i> risks	1. [•] 2. [•] 3. [•]
88.1	The <i>Supplier's</i> liability to the <i>Purchaser</i> for indirect or consequential loss, including loss of profit, revenue and goodwill is limited to	R0.0 (zero Rand)
88.2	For any one event, the <i>Supplier's</i> liability to the <i>Purchaser</i> for loss of or damage to the <i>Purchaser's</i> property is limited to	(1) for the <i>Purchaser's</i> existing and surrounding property in the care, custody and control of the <i>Supplier</i> the amount of the deductible (first amount payable) relevant to the event and  (2) for all other existing <i>Purchaser's</i> property the applicable deductible as at contract date
88.3	The <i>Supplier's</i> liability for Defects due to his design which are not notified before the last <i>defects date</i> is limited to:	R[•]
88.4	The <i>Supplier's</i> total liability to the <i>Purchaser</i> , for all matters arising under or in connection with this contract, other than the excluded matters, is limited to	R[•]
88.5	The <i>end of liability date</i> is	[•] years after Delivery of the whole of the <i>goods and services</i> .

## 9 Termination and dispute resolution

94.1	The <i>Adjudicator</i> is	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 <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> ). 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	[•]

94.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA, a Division of the South African Institution of Civil Engineering, or its successor body (See <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> )
94.4(2)	The <i>tribunal</i> is:	arbitration
94.4(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.
94.4(5)	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 of the Association of Arbitrators (Southern Africa) or its successor body.
	- if the arbitration procedure does not state who selects an arbitrator, is	

## 10 Data for Option clauses

X1	Price adjustment for inflation			
X1.1	The <i>base date</i> for indices is	[•].		
	The proportions used to calculate the Price Adjustment Factor are:	proportion	linked to index for	
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		[•]	non-adjustable	
1.00				
X2	Changes in the law			
X2.1	A change in the law of	[•] is a compensation event if it occurs after the Contract Date		
X7	Delay damages			
X7.1	Delay damages for Delivery are	Delivery of	amount per day	
X17	Low performance damages			
X17.1	The amounts for low performance damages are:	amount	performance level	
		R [•]	for [•]	

		R [•]	for [•]
		R [•]	for [•]
		R [•]	for [•]
X20.1	The <i>incentive schedule</i> for Key Performance Indicators is in	Annexure [•] to this Contract Data	
X20.2	A report of performance against each Key Performance Indicator is provided at intervals of	[•] months	
Z	The <i>additional conditions of contract</i> are	Z1 to Z15 always apply for Eskom	

## **Z1 Cession delegation and assignment**

- Z1.1 The *Supplier* does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Purchaser*.
- Z1.2 Notwithstanding the above, the *Purchaser* may on written notice to the *Supplier* 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.

## **Z2 Joint ventures**

- Z2.1 If the *Supplier* 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 *Purchaser* for the performance of this contract.
- Z2.2 Unless already notified to the *Purchaser*, the persons or organisations notify the *Supply Manager* within two weeks of the Contract Date of the key person who has the authority to bind the *Supplier* on their behalf.
- Z2.3 The *Supplier* does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the *Purchaser* having been given to the *Supplier* in writing.

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

- Z3.1 Where a change in the *Supplier's* legal status, ownership or any other change to his business composition or business dealings results in a change to the *Supplier's* B-BBEE status, the *Supplier* notifies the *Purchaser* within seven days of the change.
- Z3.2 The *Supplier* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Supply Manager* within thirty days of the notification or as otherwise instructed by the *Supply Manager*.
- Z3.3 Where, as a result, the *Supplier's* B-BBEE status has decreased since the Contract Date the *Purchaser* may either re-negotiate this contract or alternatively, terminate the *Supplier's* obligation to Provide the Goods and Services.
- Z3.4 Failure by the *Supplier* to notify the *Purchaser* of a change in its B-BBEE status may constitute a reason for termination. If the *Purchaser* terminates in terms of this clause, the procedures on termination are P1, P2 and P3 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.

## **Z4 Confidentiality**

- Z4.1 The *Supplier* 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 *Supplier*, enters the public domain or to information which was already in the possession of the *Supplier* at the time of disclosure (evidenced by written records in existence at that time). Should the *Supplier* disclose information to Others in terms of clause 23.1, the *Supplier* ensures that the provisions of this clause are complied with by the recipient.
- Z4.2 If the *Supplier* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Supply Manager*.
- Z4.3 In the event that the *Supplier* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Supplier*, to the extent permitted by law prior to disclosure, notifies the *Purchaser* 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 *Supplier* 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 *goods* or any portion thereof, in the course of Providing the Goods and Services and after Delivery, requires the prior written consent of the *Supply Manager*. All rights in and to all such images vests exclusively in the *Purchaser*.
- Z4.5 The *Supplier* ensures that all his subcontractors abide by the undertakings in this clause.

## **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 *Supply 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 25.4**

- Z6.1 The *Supplier* undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the provision of the *goods* and execution of the *services*.

Without limitation the *Supplier*:

- warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with 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 supply and
  - undertakes, in and about the execution of the supply, to comply 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 *Supplier's* direction and control, likewise observe and comply with the foregoing.
- Z6.2 The *Supplier*, in and about the execution of the supply, 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 *Supplier'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 *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice in accordance with the *Purchaser's* procedures stated in the Goods Information, showing the amount due for payment equal to that stated in the payment certificate.
- Z7.2 If the *Supplier* does not provide a tax invoice in the form and by the time required by this contract, the time by when the *Purchaser* 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 *Purchaser* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.
- Z7.3 The *Supplier* (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 *Purchaser's* VAT number 4740101508 on each invoice he submits for payment.

**Z8 Notifying compensation events**

- Z8.1 Delete from the last sentence in core clause 61.3 the words, "unless the event arises from the *Supply Manager* giving an instruction, changing an earlier decision or correcting an assumption".

**Z9 Purchaser's limitation of liability**

- Z9.1 The *Purchaser's* liability to the *Supplier* for the *Supplier's* indirect or consequential loss is limited to R0.00 (zero Rand)
- Z9.2 The *Supplier's* entitlement under the indemnity in 83.1 is provided for in 60.1(12) and the *Purchaser's* liability under the indemnity is limited.

**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 Addition to secondary Option X7 Delay damages (if applicable in this contract)**

- Z11.1 If the amount due for the *Supplier's* payment of delay damages reaches the limits stated in this Contract Data for Option X7, the *Purchaser* may terminate the *Supplier's* obligation to Provide the Goods and Services using the same procedures and payment on termination as those applied for reasons R1 to R15 or R18 stated in the Termination Table.

**Z12 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 *Supplier* 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,

<b>Collusive Action</b>	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,
<b>Committing Party</b>	means, as the context requires, the <i>Supplier</i> , or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors or the Subcontractor's employees,
<b>Corrupt Action</b>	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,
<b>Fraudulent Action</b>	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,
<b>Obstructive Action</b>	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
<b>Prohibited Action</b>	means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

- Z12.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.
- Z12.2 The *Purchaser* may terminate the *Supplier's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Supplier* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Purchaser* 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 *Purchaser* can terminate the *Supplier's* obligation to Provide the Services for this reason.
- Z12.3 If the *Purchaser* terminates the *Supplier'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.
- Z12.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Purchaser* does not have a contractual bond with the Committing Party, the *Supplier* ensures that the Committing Party co-operates fully with an investigation.

### Z13Insurance

#### Z 13.1 Replace core clause 84 with the following:

<b>Insurance cover</b>	<b>84</b>	
	<b>84.1</b>	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.
	<b>84.2</b>	The <i>Supplier</i> provides the insurances stated in the Insurance Table A for events which are at the <i>Supplier's</i> risk from the <i>starting date</i> until the last <i>defects date</i> or a termination certificate has been issued.

**INSURANCE TABLE A**

<b>Insurance against</b>	<b>Minimum amount of cover or minimum limit of indemnity</b>
Loss of or damage to the <i>goods</i> , plant and materials	The replacement cost where not covered by the <i>Purchaser's</i> insurance.  The <i>Purchaser's</i> policy deductible as at Contract Date, where covered by the <i>Purchaser's</i> insurance.
Liability for loss of or damage to property (except the <i>goods</i> , plant and materials and equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Supplier</i> ) caused by activity in connection with this contract	<b><u>Loss of or damage to property</u></b> <b><u>Purchaser's property</u></b> The replacement cost where not covered by the <i>Purchaser's</i> insurance.  The <i>Purchaser's</i> policy deductible as at Contract Date, where covered by the <i>Purchaser's</i> insurance.  <b><u>Other property</u></b> The replacement cost  <b><u>Death of or bodily injury</u></b> The amount required by the applicable law.
Liability for death of or bodily injury to employees of the <i>Supplier</i> arising out of and in the course of their employment in connection with this contract	The amount required by the applicable law

**Z 13.2 Replace core clause 87 with the following:**

**Insurance by  
the *Purchaser***

87

87.1 The *Purchaser* provides the insurances stated in the Insurance Table B

**INSURANCE TABLE B**

<b>Insurance against or name of policy</b>	<b>Minimum amount of cover or minimum of indemnity</b>
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
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## **Z14 Nuclear Liability**

- Z14.1 The *Purchaser* 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.
- Z14.2 The *Purchaser* is solely responsible for and indemnifies the *Supplier* or any other person against any and all liabilities which the *Supplier* 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 *Supplier* or any other person or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.
- Z14.3 Subject to clause Z14.4 below, the *Purchaser* 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 *Supplier* or any other person, or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.
- Z14.4 The *Purchaser* 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.
- Z14.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

## **Z15 Asbestos**

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

<b>AAIA</b>	means approved asbestos inspection authority.
<b>ACM</b>	means asbestos containing materials.
<b>AL</b>	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.
<b>Ambient Air</b>	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.
<b>Compliance Monitoring</b>	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.
<b>OEL</b>	means occupational exposure limit.
<b>Parallel Measurements</b>	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.



<b>Safe Levels</b>	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.
<b>Standard</b>	means the <i>Purchaser'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.
<b>SANAS</b>	means the South African National Accreditation System.
<b>TWA</b>	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.

- Z15.1 The *Purchaser* ensures that the Ambient Air in the area where the *Supplier* 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.
- Z15.2 Upon written request by the *Supplier*, the *Purchaser* 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 *Supplier* may perform Parallel Measurements and related control measures at the *Supplier'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 Z15.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.
- Z15.3 The *Purchaser* manages asbestos and ACM according to the Standard.
- Z15.4 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.
- Z15.5 The *Supplier'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.
- Z15.6 The *Supplier* 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.
- Z15.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the *Purchaser* at the *Purchaser's* expense, and conducted in line with South African legislation.

## **Annexure A: Supply Requirements**

[Notes: The example given in the NEC3 Supply Contract Guidance Notes pages 15 to 20 inclusive is based on Incoterms 2000. However users will probably wish to use Incoterms 2010 which the details below are based on. Users may need to adjust the information to comply with actual requirements. First decide whether Incoterms will be used or not, then delete the arrangement below which does not apply and delete these notes]

## The Supply Requirements for this contract are based on the use of INCOTERMS:

The *Supplier* supplies the *goods* in accordance with INCOTERMS 2010<sup>3</sup> as follows:

[Select the group and then term within the group which applies and state the applicable delivery place. Delete all the other groups and this note]

Group	Category	Term	Delivery Place
E	departure	EXW	
F	main carriage unpaid	FCA, FAS, FOB	
C	main carriage paid	CFR, CIF, CPT, CIP	
D	arrival	DAT, DAP, DDP	

The Parties obligations described in Incoterms for the category and term selected are now incorporated into this contract as part of the Supply Requirements and hence the Goods Information.

The obligations of seller and buyer for the selected Incoterm determine each Party's costs, risks and insurance requirements incidental to the supply and transport of the *goods* from *Supplier* to *Purchaser*.

For each of the thirteen terms, Incoterms set out obligations of the seller (the *Supplier*) in ten paragraphs identified as A1 to A10 and the corresponding obligations of the buyer (the *Purchaser*) in paragraphs B1 to B10. These obligations cover the following subjects:

A	The <i>Supplier's</i> obligations	B	The <i>Purchaser's</i> obligations
A1	Provision of goods in conformity with contract	B1	Payment of the price
A2	Licences, authorisations and formalities	B2	Licences, authorisations and formalities
A3	Contracts of carriage and insurance	B3	Contracts of carriage and insurance
A4	Delivery	B4	Taking delivery
A5	Transfer of risks	B5	Transfer of risks
A6	Division of costs	B6	Division of costs
A7	Notice to the buyer	B7	Notice to the seller
A8	Proof of delivery, transport document or equivalent electronic message	B8	Proof of delivery, transport document or equivalent electronic message
A9	Checking - packing - marking	B9	Inspection of goods
A10	Other obligations	B10	Other obligations

[Should there be a need to amplify any of the published obligations listed above for the chosen INCOTERM, add them here.]

All other information NOT pertinent to the above is given in the balance of the Goods Information

<sup>3</sup> International Chamber of Commerce, Incoterms 2010, Paris, January 2011

## The Supply Requirements for this contract are as follows:

[Use these when INCOTERMS do not apply].

<b>1. The requirements for the supply are</b>	[State the constraints on how the <i>Supplier</i> manufactures, prototypes, tests and stores the <i>goods</i> including order and timing]	
<b>2. The requirements for transport are</b>	[State the extent to which the <i>Supplier</i> transports the <i>goods</i> and the mode of transport]	
<b>3. The delivery place is</b>	[State the location where the <i>goods</i> are to be placed by the <i>Supplier</i> , such as whether it is a dispatch department at the <i>Supplier's</i> premises, the <i>Purchaser</i> is to collect or other location the <i>Purchaser</i> may require. If the delivery place for the <i>services</i> is different to the <i>goods</i> state it here]	
<b>4. Actions of the Parties during supply</b>	<b>Action</b>	<b>Party which does it</b>
	Giving notice of Delivery	
	Checking packing and marking before dispatch	
	Contracting for transport	
	Pay costs of transport	
	Arrange access to delivery place	
	Loading the <i>goods</i>	
	Unloading the <i>goods</i>	
<b>For international procurement</b>	Undertake export requirements	
	Undertake import requirements	
<b>5. Information to be provided by the <i>Supplier</i></b>	<b>Title of document</b>	
	Packing lists for cases and their contents	
	Copy of invoice for the <i>goods</i>	
	Delivery Note	
	Test results and maintenance manuals	
<b>For international procurement</b>	Licences, authorisations and other formalities associated with export of the <i>goods</i>	
	Air Waybill or Bill of Lading with associated landing, delivery and forwarding order	
	The Bill of Entry endorsed by the importation authority	
	Customs work sheets, showing tax, duties and surcharges which the law of the country into which the <i>goods</i> are being imported requires the importer to pay	
	Invoice from the importation clearing agent showing airline fees, landing charges, wharfage and dock dues as applicable	
	Specify other import documents required by authorised officials.	

All other information NOT pertinent to the above is given in the balance of the Goods Information

## C1.2 Contract Data

### Part two - Data provided by the *Supplier*

**[Instructions to the contract compiler: (delete this note before issue to tenderers with an enquiry)**

Whenever a cell is shaded in the left hand column it denotes this data is optional and would be required in relation to the option selected. In the event that the option is not required select and delete the whole row.]

**Notes to a tendering supplier:**

1. Please read both the NEC3 Supply Contract (SC3)<sup>4</sup> and the relevant parts of its Guidance Notes (SC3-GN)<sup>5</sup> in order to understand the implications of this Data which the tenderer is required to complete.
2. The number of the clause which requires the data is shown in the left hand column for each statement however other clauses may also use the same data
3. Where a form field like this [ ] appears, data is required to be inserted relevant to the option selected. Click on the form field **once** and type in the data. Otherwise complete by hand and in ink.

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

Clause	Statement	Data								
10.1	The <i>Supplier</i> is (Name):  Address  Tel No.  Fax No.									
11.2(8)	The Goods Information for the <i>Supplier's</i> design is in:									
11.2(11)	The tendered total of the Prices is	R , (in words)								
11.2(12)	The <i>price schedule</i> is in:									
11.2(14)	The following matters will be included in the Risk Register									
25.2	The restrictions to access for the <i>Supply Manager</i> and Others to work being done for this contract are									
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	<table><tr><th><i>goods and services</i></th><th><i>delivery date</i></th></tr><tr><td>1</td><td>[•]</td></tr><tr><td>2</td><td>[•]</td></tr><tr><td>3</td><td>[•]</td></tr></table>	<i>goods and services</i>	<i>delivery date</i>	1	[•]	2	[•]	3	[•]
<i>goods and services</i>	<i>delivery date</i>									
1	[•]									
2	[•]									
3	[•]									
31.1	The programme identified in the Contract Data is contained in:									

<sup>4</sup> Either April 2013 or December 2009 Edition as stated by *Purchaser* in Contract Data part 1.

<sup>5</sup> Available from Engineering Contract Strategies Tel 011 803 3008, Fax 086 539 1902, or [www.ecs.co.za](http://www.ecs.co.za)

63.2

The *percentage for overheads and profit*  
added to the Defined Cost is

%

PART 2: PRICING DATA

NEC3 Supply Contract

Document reference	Title	No of pages
C2.1	Pricing assumptions	2
C2.2	The <i>price schedule</i>	[•]

## C2.1 Pricing assumptions

### How goods and services are priced and assessed for payment

Clause 11 in NEC3 Supply Contract, (SC3) core clauses states:

<b>Identified and defined terms</b>	11	
	11.2	(11) The Prices are the amounts stated in the price column of the Price Schedule. Where a quantity is stated for an item in the Price Schedule, the Price is calculated by multiplying the quantity by the rate.
		(12) The Price Schedule is the <i>price schedule</i> unless later changed in accordance with this contract.
<b>Assessing the amount due</b>	50.2	The amount due is
		<ul style="list-style-type: none"><li>• the Price for each lump sum item in the Price Schedule which the <i>Supplier</i> has completed,</li><li>• where a quantity is stated for an item in the Price Schedule, an amount calculated by multiplying the quantity which the <i>Supplier</i> has completed by the rate,</li><li>• plus other amounts to be paid to the <i>Supplier</i>,</li><li>• less amounts to be paid by or retained from the <i>Supplier</i>.</li></ul>
		Any tax which the law requires the <i>Purchaser</i> to pay to the <i>Supplier</i> is included in the amount due.

This confirms that the Supply Contract is a priced contract where the Prices are derived from a list of items of *goods* and *services* which can be priced as lump sums or as expected quantities of *goods* and *services* multiplied by a rate, or a mix of both.

### Function of the Price Schedule

Clause 53.1 states: "Information in the Price Schedule is not Goods Information". This confirms that instructions to do work or how it is to be done are not included in the Price Schedule but in the Goods Information. This is further confirmed by Clause 20.1 which states, "The *Supplier* Provides the Goods and Services in accordance with the Goods Information". Hence the *Supplier* does **not** Provide the Goods and Services in accordance with the Price Schedule. The Price Schedule is only a pricing document.

### Preparing the *price schedule*

Items in the *price schedule* may have been inserted by the *Purchaser* and the tendering supplier should insert any additional items which he considers necessary. Whichever party provides the items in the *price schedule* the total of the Prices is assumed to be fully inclusive of everything necessary to Provide the Goods and Services as described at the time of entering into this contract.

It will be assumed that the tendering supplier has

- Read Pages 8, 11, 12 and Appendix 5 of the SC3 Guidance Notes before preparing the *price schedule*;
- Included in his Prices and rates for correction of Defects (core clause 43.1) as there is no compensation event for this unless the Defect is due to a *Supplier's* risk;
- Spread the cost of doing work he chooses not to list as separate items in the *price schedule* across other Prices and rates in order to fulfil the obligation to Provide the Goods and Services for the tendered total of the Prices;
- Understood that there is no adjustment to lump sum prices in the *price schedule* if the amount, or quantity, of work within that lump sum item later turns out to be different to that which the *Supplier* estimated at time of tender. The only basis for a change to the Prices is as a result of a compensation event per clause 60.1;

- Understood that the *Supplier* does not have to allow in his Prices and rates for matters that may arise as a result of a compensation event.

### **Format of the *price schedule***

Entries in the first four columns in the *price schedule* in section C2.2 are made either by the *Purchaser* or the tendering supplier.

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

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

If the *Supplier* is to be paid an amount for an item proportional to the length of time for which the *goods* and *services* are provided, a unit of time is stated in the Unit column and the length of time (as a quantity of the stated units of time) is stated in the Quantity column.

## C2.2 the *price schedule*

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

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
1.	128279	BASE, RELAY: TYPE: 11 PIN; POTENTIAL: 400 VAC; CURRENT: 10 A; REFERENCE NO: S411; CONFIGURATION OCTAL, CONNECTION SCREW, FRONT SCREW CONNECTED	EA		1	
2.	128201	BASE, RELAY: TYPE: 11 PIN; POTENTIAL: 80 V; CURRENT: 10 A; REFERENCE NO: RN78725; CONFIGURATION DUAL PINS, CONNECTION PUSH-ON	EA		1	
3.	128151	BABASE, RELAY: TYPE: 14 PIN; REFERENCE NO: 212644-92; CONFIGURATION DUAL INLINE PINS, CONNECTION CLIP-INSE RLY:14 PIN;212644-92	EA		1	
4.	124298	BASE, RELAY: TYPE: 8 PIN; POTENTIAL: 250 V; CURRENT: 10 A; SUPPL P/N: PF08AF; CONFIGURATION PIN, CONNECTION SCREW	EA		1	
5.	125554	BASE, RELAY: TYPE: 8 PIN; POTENTIAL: 48 V; REFERENCE NO: K248V7600OHMT18000; CONFIGURATION WEDGE, CONNECTION SOLDER, FOR USE ON TELEPHONE EMERGENCY HOOTER CIRCUITS	EA			



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
6.	53502	BASE: TYPE: ARRESTER; WIDTH: 21 MM; LENGTH: 96 MM; MATERIAL: STL; BASE,SURGEDIRECTR OF7 PRECIPBASE:ARRESTER;WD 21 MM;LG 96 MM;STL	EA		1	
7.	137696	BRUSH, ELECTRICAL SET: TYPE: DC DRIVE MOTOR; DIMENSIONS: WD 25.4 X LG 35 X THK 9.52 MM; QUANTITY PER SET: 2; MATERIAL: CARBON; GRADE: EG260; DRAWING NO: 13.57/40/A REV 1; FOR USE ON MILL FEEDER MOTORS; CONNECTION: FLEXIBLE SHUNT CABLE LG 75 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
8.	137697	BRUSH, ELECTRICAL SET: TYPE: DC DRIVE MOTOR; DIMENSIONS: WD 12.5 X LG 25 X THK 6 MM; QUANTITY PER SET: 2; CONNECTION: PIGTAIL; MATERIAL: CARBON; GRADE: RE54; DRAWING NO: 41-0162-01/25 REV 1; REFERENCE NO: 1299/4; FOR USE ON WIP SOUTH COLD WATER POLYETECTROLYTE HELIK DRY FEEDER MOTOR AND LIME SILO BELT FEEDER MOTOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
9.	137455	BRUSH, ELECTRICAL: TYPE: AC GENERATOR; WIDTH: 32 MM; LENGTH: 64 MM; THICKNESS: 20 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 125 MM; MATERIAL:	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CARBON; GRADE: RE634; SUPPL P/N: 11299/7B; DRAWING NO: 01-1561-00/120 REV 1; FOR USE ON TURBINE GENERATOR VOLTAGE MONITORING MODIFIED BRUSHGEAR; PER SET: 1				
10.	137701	BRUSH, ELECTRICAL: TYPE: DC GENERATOR; WIDTH: 32 MM; LENGTH: 57 MM; THICKNESS: 20 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 135 MM; MATERIAL: CARBON; DRAWING NO: 10 REV 1; PER SET: 1	EA		1	
11.	137695	BRUSH, ELECTRICAL: TYPE: DC MOTOR DRIVE; WIDTH: 16 MM; LENGTH: 40 MM; THICKNESS: 12 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 41 MM; MATERIAL: CARBON; 1 PER SET, ICG NO-2 DC	EA		1	
12.	137440	BRUSH, ELECTRICAL: TYPE: DC MOTOR DRIVE; WIDTH: 32 MM; LENGTH: 50 MM; THICKNESS: 12 MM; CONNECTION: CLIP ON TERMINAL; MATERIAL: GRAPHITE; SUPPL P/N: RC73; REFERENCE NO: 1299/28; EARTHING; FOR MOTOR; PER SET: 1	EA		1	
13.	140101	BRUSH, ELECTRICAL: TYPE: DC PUMP MOTOR; WIDTH: 16 MM; LENGTH: 32 MM; THICKNESS: 8 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 50 MM; MATERIAL: CARBON; SUPPL P/N: 1299/15; DRAWING NO: 01-0700-01/65 REV 1; PLANT/MACHINE: UNIT DIESEL GENERATOR OIL PUMP MOTOR; RATING 0.8KW; GRADE RE28; PER SET: 1	EA		1	
14.	137734	BRUSH, ELECTRICAL: TYPE: DC PUMP MOTOR; WIDTH: 20 MM; LENGTH: 32 MM; THICKNESS: 12 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 62 MM; MATERIAL:	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CARBON; GRADE: RE59; DRAWING NO: 01-1192-01/60 REV 1; REFERENCE NO: 1299/14; FOR USE ON E.F.P/DC. LUB OIL PUMP MOTOR 6,9KW (AEG MOTOR); PER SET: 1.				
15.	251362	BRUSH, ELECTRICAL: TYPE: EARTHING CIRCUIT; WIDTH: 32 MM; LENGTH: 64 MM; THICKNESS: 20 MM; MATERIAL: GRAPHITE/SILVER; GRADE: SM9173; SUPPL P/N: EARTH012; DRAWING NO: 012 REV 1; AC GENERATOR, 125 MM LG FLEXIBLE SHUNT CABLE	EA		1	
16.	152693	BRUSH, ELECTRICAL: WIDTH: 6 MM; LENGTH: 15 MM; THICKNESS: 3 MM; MATERIAL: CARBON; REFERENCE NO: 44A410885G01; CLIP ASSEMBLY; COMPUTER	EA		1	
17.	136105	BUSHING, ELECTRICAL CONDUCTOR: POTENTIAL: 3.3 KV; CURRENT: 2000 A; REFERENCE NO: IT-13; INSULATOR FLANGED	EA		1	
18.	135699	BUSHING, ELECTRICAL CONDUCTOR: POTENTIAL: 3.3 KV; CURRENT: 500 A; REFERENCE NO: A16-4; TRANSFORMER	EA		1	
19.	135727	BUSHING, ELECTRICAL CONDUCTOR: POTENTIAL: 36 KV; CURRENT: 2.2 KA; REFERENCE NO: P276140771; INSULATOR FLANGED	EA		1	
20.	135303	BUSHING, ELECTRICAL CONDUCTOR: TYPE: INSULATOR; KV A ILV, FLANGED	EA		1	
21.	136107	BUSHING, ELECTRICAL CONDUCTOR: TYPE: INSULATOR; POTENTIAL: 3.3 KV; CURRENT: 2.4 KA; MATERIAL: PORCELAIN; TRANSFORMER	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
22.	135670	BUSHING, ELECTRICAL CONDUCTOR: TYPE: LOW VOLTAGE; POTENTIAL: 1.1 KV; CURRENT: 220 A; REFERENCE NO: R350; TRANSFORMER	EA		1	
23.	135591	BUSHING, ELECTRICAL CONDUCTOR: TYPE: TRANSFORMER; POTENTIAL: 22 KV; CURRENT: 1.6 KA; LENGTH: 82 MM; SKIRT QUANTITY: 3; REFERENCE NO: P27614118; 3MM; LG BELOW FLANGE 296MM; SKIRT TYPE NORMAL	EA		1	
24.	136106	BUSHING, ELECTRICAL CONDUCTOR: TYPE: TRANSFORMER; POTENTIAL: 3.3 KV; CURRENT: 2000 A; MATERIAL: PORCELAIN; REFERENCE NO: SP10E3; INSULATOR FLANGED	EA		1	
25.	130471	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; INCLOSURE TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING BRACKET HOLE DIMENSIONS 105MM CENTRE TO CENTRE, 20MM LONG SLOTTED HOLES, HOLE SIZE 7MM DIA, RING SIZE 111MM DIA, TOTAL HEIGHT 205MM, CURRENT RATING 1200:1, RING, INDOOR	EA		1	
26.	119266	BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 5 A; POLE: 3; TYPE: MINIATURE THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF3-G3			1	
27.	119286	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 30 A; POLE: 1; TYPE:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1-G3				
28.	119289	BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 20 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: CF3G3			1	
29.	119292	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 15 A; POLE: 1; FRAME: S; TYPE: HYDRAULIC MAGNETIC CURVE 2; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1-G3; HEINEMANN, TIME DELAY, COMPLETE WITH THERMO PLASTIC SHROUDS, SCREWS AND CLIP TRAY			1	
30.	119294	BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 10 A; POLE: 3; TYPE: THERMAL MAGNETIC CURVE 1; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF3/G3; HEINEMANN, TIME DELAY, COMPLETE WITH THERMO PLASTIC SHROUD, SCREWS AND CLIP TRAY, 50HZ; SMALL FRAME			1	
31.	119477	BREAKER, CIRCUIT: POTENTIAL: 220/380 VAC; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 6 KA; REFERENCE NO: FAZ			1	
32.	119480	BREAKER, CIRCUIT: POLE: 2; MOUNT: FLANGE; LINK; OPERATING 11/3.3KV U/BRD; CONTACT ARRANGEMENT 1NC			1	
33.	119504	BREAKER, CIRCUIT: POTENTIAL: 380/415 VAC; CURRENT: 6 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 3 KA; REFERENCE NO: 5SQ2270-OKA06; 5SQ1210- OKA06N; N SYSTEM			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
34.	119737	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 2 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: C45N; MAIN, BREAKING CAPACITY 8000A, MERLIN GERIN			1	
35.	119769	BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 80 A; POLE: 3; TYPE: MINIATURE HYDRAULIC MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF3-G3/AC			1	
36.	119808	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 250 VDC; CURRENT: 4 A; POLE: 4; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 5SM6504; S TYPE, 2 POLE			1	
37.	119820	BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 60 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF3-G3; SAMITE			1	
38.	119849	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; CURRENT: 25 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 3VE3000-2NA00			1	
39.	119850	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 250 VDC; CURRENT: 0.5 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 5SM6505; COMPLETE WITH COVER			1	
40.	119967	BREAKER, CIRCUIT: POTENTIAL: 250 VAC; 60 VDC; CURRENT: 2 A; POLE: 6; TYPE: MINIATURE THERMAL MAGNETIC; SUPPL P/N: FSA 232.1.1; WIDMAIER			1	
41.	120022	BREAKER, CIRCUIT: POTENTIAL: 250 VAC; 60 VDC; CURRENT: 0.5 A; POLE: 1; TYPE:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		THERMAL MAGNETIC; RED RESET BUTTON, 6 SPADE CONNECTION PINS AT THE BACK				
42.	120024	BREAKER, CIRCUIT: POTENTIAL: 240-380 VAC; 250 VDC; CURRENT: 2 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: SSM6502			1	
43.	120025	BREAKER, CIRCUIT: POTENTIAL: 250 VAC; 60 VDC; CURRENT: 0.1 A; POLE: 1; TYPE: THERMAL MAGNETIC; REFERENCE NO: 5SR1801			1	
44.	120031	BREAKER, CIRCUIT: POTENTIAL: 380-660 VAC; CURRENT: 63 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; MOULDED CASE, COIL 220 VOLT AC			1	
45.	120036	BREAKER, CIRCUIT: POTENTIAL: 24 VAC/DC; CURRENT: 0.5 A; POLE: 1; TYPE: THERMAL MAGNETIC; SUPPL P/N: SG			1	
46.	120045	BREAKER, CIRCUIT: POTENTIAL: 1 KV; CURRENT: 2.5 KA; POLE: 3; SPECIFICATION: VDE0660; REFERENCE NO: LH2500; 50 HZ, HUNDT AND WEBER			1	
47.	120046	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 2 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF1G3V			1	
48.	120049	BREAKER, CIRCUIT: POTENTIAL: 250 VAC; 60 VDC; CURRENT: 4 A; POLE: 3; TYPE: THERMAL MAGNETIC; REFERENCE NO: 9216-042; FUSE CUT OFF, TYPE 620-4A RT, FOR USE ON TURBINE PROTECTION, TURBINE CONTROLLER AND SUPERVISORY SYSTEM			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
49.	120052	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; CURRENT: 2 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; REFERENCE NO: S212; 22KV, COMPRESSOR			1	
50.	120053	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 90 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA			1	
51.	120054	BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 400 A; POLE: 3; TEMPERATURE RATING: 40 DEG C; INTERRUPT CAPACITY: 30 KA; FITTED WITH 50 VOLT DC SHUNT TRIP WITH DC SWITCH, PLUS AUXILLIARY CONTACT, DOUBLE POLE CHANGE OVER 2A- 2B, FOR USE ON, MVAR MODEL ZVT			1	
52.	120057	BREAKER, CIRCUIT: POTENTIAL: 550 VAC; CURRENT: 150 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; REFERENCE NO: NF250CS-150AMP (NEW); MITSUBUSHI			1	
53.	120058	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 220 VDC; CURRENT: 2 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; REFERENCE NO: S212K-2A; WITH 2NO AND 1NC AUXILIARY CONTACTS			1	
54.	120059	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; INTERRUPT CAPACITY: 4 KA; REFERENCE NO: S212K-6A; WITH AUXILIARY CONTACTS 1NO AND 1NC, ANY BBC AGENT			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
55.	120064	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 20 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA			1	
56.	120122	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 20 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: CF2G3; SF2-G3			1	
57.	120215	BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 100 A; POLE: 3; MOUNT: PANEL; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF3- G3; SWITCH; ACTION SINGLE THROW; CONTACT ARRANGEMENT 3NO			1	
58.	123095	BREAKER, CIRCUIT: POTENTIAL: 250 VAC; CURRENT: 16 A; POLE: 1; TYPE: THERMAL MAGNETIC; REFERENCE NO: STE211; SWITCH, TOGGLE			1	
59.	123234	BREAKER, CIRCUIT: POTENTIAL: 65 VDC; CURRENT: 4 A; POLE: 14; TYPE: DUAL THERMAL MAGNETIC; CAT NO: 198/1990; REFERENCE NO: 2210S221N1M1H111; 3600P10SI2325-4029 (NEW); SERIES 2210, USE WITH BASE TYPE 17-P10-SI, FOR REHEAT AND BYPASS VALVES, ETA BRAND, 5A ALSO ACCEPTABLE			1	
60.	123235	BREAKER, CIRCUIT: POTENTIAL: 65 VDC; CURRENT: 6 A; POLE: 2; TYPE: DUAL THERMAL MAGNETIC; REFERENCE NO: 2210- S221-N1M1-H111 (OLD); 3600P10SI2325- 4128 (NEW); 2210-S221-N1M1-H111; FOR REHEAT AND BYPASS VALVES, USE WITH BASE TYPE 17-P10-SI , SERIES 2210			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
61.	123298	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; 60 VDC; CURRENT: 0.5 A; POLE: 3; TYPE: THERMAL MAGNETIC; REFERENCE NO: 5SR1705; SWITCH, C30317WTP			1	
62.	130466	TRANSFORMER, CURRENT: POTENTIAL: 1.7-3 KV; APPARENT POWER: 10 VA; INCLOSURE TYPE: ENCAPSULATED; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING HOLE DIMENSIONS 130MM CENTRE TO CENTRE, HOLE SIZE 7MM DIAMETER, TOTAL HEIGHT 120MM, CURRENT RATING 20:1, RING, OUTDOOR	EA		1	
63.	130440	TRANSFORMER, CURRENT: POTENTIAL: 220-15 VAC; APPARENT POWER: 50/100 VA; TYPE: INSTRUMENT; NO CENTRE TAP ON SECONDARY WINDING, SINGLE INPUT AND OUTPUT ONLY, LOCATION INDOOR	EA		1	
64.	180005	TRANSFORMER, CURRENT: POTENTIAL: 4-16 KV; CURRENT: 150 A; APPARENT POWER: 15 VA; CURRENT RATIO: 150:1; CLASS: 10P10; SUPPL P/N: BP151; ELECTRORESIN; 2 CORE; CORE ONE; RESISTANCE 0.9 OHM; CORE TWO CLASS ONE; VA 10; STC 17.5 KA; 0.5 SECONDS; FOR ASH PUMP SWITCHGEAR * WHITE PHASE; LENGTH 250MM; WIDTH 115MM; HEIGHT 370MM; 200MM ID	EA		1	
65.	130470	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 20 VA; TYPE: INSTRUMENT; REFERENCE NO: 01085/3; RING, CLASS 3, HIGH IMPACT POLYCARBONATE CASE MOULDED ON MOUNTING FEET, MOUNTING HOLES	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		DISTANCE 76MM, RING SIZE MUST NOT BE LESS THAN 32MM DIA, CURRENT RATING 400:1, LOCATION OUTDOOR				
66.	130624	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 20 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; TYPE: INSTRUMENT; REFERENCE NO: 1; CLASS 1, ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 112 X 112MM CENTRE TO CENTRE, MOUNTING HOLE SIZE 12MM DIAMETER WITH CLIP ON LOCKING DEVICE INSIDE THE HOLE, RING SIZES IN STEP FORM FOR THE FOLLOWING BUSBAR SIZES 1. 80 X 25MM HORIZONTAL 2. 60 X 31MM HORIZONTAL 3. 40 X 40MM HORIZONTAL 4. 80 X 25MM VERTICAL 5. 60 X 31MM VERTICAL, CURRENT RATING RATIO 1500:1, RING, INDOOR	EA		1	
67.	130471	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; INCLOSURE TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING BRACKET HOLE DIMENSIONS 105MM CENTRE TO CENTRE, 20MM LONG SLOTTED HOLES, HOLE SIZE 7MM DIA, RING SIZE 111MM DIA, TOTAL HEIGHT 205MM, CURRENT RATING 1200:1, RING, INDOOR	EA		1	
68.	128963	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; TYPE: INSTRUMENT; CL 1, CURRENT RATING 150:5, RING LOCATION: INDOOR	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
69.	130468	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; TYPE: INSTRUMENT; CL 1, CURRENT RATING 150:5, RING LOCATION: INDOOR	EA		1	
70.	130465	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; TYPE: INSTRUMENT; CL 1, CURRENT RATING 150:5, RING LOCATION: INDOOR	EA		1	
71.	129032	TRANSFORMER, CURRENT: POTENTIAL: 660-2500 V; TYPE: INSTRUMENT; 10/1A CL 10P10, CURRENT RATING 10:1 LOCATION: INDOOR	EA		1	
72.	218934	DETECTOR, RESISTANCE TEMPERATURE: TYPE: PT100; TEMPERATURE RATING: 0-80 DEG C; RESISTANCE: 100 OHM; WIRE: 3; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; SUPPL P/N: 6.0B300FS4KH2P; ELEMENT SIZE 6MM DIA X 300MM LG, SPRING LOADED, CERAMIC HEAD, NO HEAD AMPLIFIER INSTRUMENT	EA		1	
73.	151532	DETECTOR, RESISTANCE TEMPERATURE: TYPE: PT100; TEMPERATURE RATING: 0-80 DEG C; RESISTANCE: 100 OHM; WIRE: 3; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; SUPPL P/N: 6.0B300FS4KH2P; ELEMENT SIZE 6MM DIA X 300MM LG, SPRING LOADED, CERAMIC HEAD, NO HEAD AMPLIFIER INSTRUMENT	EA		1	
74.	23264	DETECTOR: TYPE: DISPLACEMENT/IMPEDANCE; SUPPL P/N: LR21319; REFERENCE NO: 751CZXX030; DZ6B05; POSITIVE, FOR USE WITH GEC TURBINE SUPERVISORY SYSTEM	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
75.	150655	DETECTOR: TYPE: PHASE FAILURE; RATING: 110 VAC; SUPPL P/N: 946576/1214815; REFERENCE NO: 86VTA,86VTB; TIMER; 0 TO 6 SEC; 2 NORMALLY OPEN AND 2 NORMALLY CLOSED CONTACTS; PLANET DV; FOR USE ON AUTOMATIC VOLTAGE REGULATOR; MVAR MODEL ZVT; REGULATOR CUBICLE	EA		1	
76.	157684	CLEANER: TYPE: CONTACT ANTI RUST; FORM: AEROSOL; CONTAINER: CAN 500 G; COMPOUND FOR SWITCHES,CONTACT AND BREAKERS; PACKED 12 PER BOX; SPANJAARD SPARK BRAND ONLY; REQUIRED THE NEW STANDARD FOR RELIABILITY; MATERIAL SAFETY DATA SHEET POINT 1 TO 16	EA		1	
77.	128172	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/440 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 62 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N65-220; 30KW; ENCLOSURE: GENERAL PURPOSE	EA		1	
78.	142541	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380 VAC; CURRENT: 50 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N50CX-400; 22KW; WITH COIL; ENCLOSURE: GENERAL PURPOSE	EA		1	
79.	125495	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 115/600 VAC; COIL VOLTAGE: 110 VAC; CURRENT: 55 A; POLE: 1; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: LC1-D123M; 5.5KW; 380VAC; WITH 220VAC COIL; TELEMECANIQUE BRAND; ENCLOSURE: GENERAL PURPOSE	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
80.	128269	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 350 A; POLE: 3; ENCLOSURE RATING: GENERAL PURPOSE; CONTACT ARRANGEMENT: 1NO 1NC; REFERENCE NO: 910-338-071-00; LS247; 380VAC; 132KW; TWO SETS OF AUXILIARY CONTACT; FOR USE ON PRECIP RECTIFIER PANELS	EA		1	
81.	143218	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/240/380/440/500/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 75 A; POLE: 3; ENCLOSURE RATING: GENERAL PURPOSE; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: SK-80; 37 KILOWATT	EA		1	
82.	126367	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 200 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: S-C150; MITSUBISHI BRAND; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
83.	157684	CLEANER: TYPE: CONTACT ANTI RUST; FORM: AEROSOL; CONTAINER: CAN 500 G; COMPOUND FOR SWITCHES, CONTACT AND BREAKERS; PACKED 12 PER BOX; SPANJAARD SPARK BRAND ONLY; REQUIRED THE NEW STANDARD FOR RELIABILITY; MATERIAL SAFETY DATA SHEET POINT 1 TO 16	EA		1	
84.	157568	CLEANER: TYPE: CONTACT; FORM: AEROSOL COMPOUND; CONTAINER: CAN 454 G; REFERENCE NO: LECTRO-KLEEN; DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		WITH EVERY DELIVERY; MILLER AND STEPHENSON BRAND ONLY				
85.	157569	CLEANER: TYPE: CONTACT; FORM: SPRAY AEROSOL; CONTAINER: CAN 454 G; TRADE NAME: SAFEZONE; MANUF P/N: MS-538; RE-NU AND LUBE; DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY	EA		1	
86.	157674	CLEANER: TYPE: ETCH; FORM: LIQUID; CONTAINER: CAN 500 ML; TRADE NAME: GENSTICK; REFERENCE NO: UPVC; GENSTICK; FOR USE ON PVC AND UPVC PIPES AND FITTINGS, DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY	EA		1	
87.	159844	CLEANER: TYPE: GENERAL PURPOSE; FORM: FOAM AEROSOL; CONTAINER: CAN 300 G; TRADE NAME: ESA FLASH; SPRAY ON/WIPE OFF; INDUSTRIAL STRENGTH	EA		1	
88.	157670	CLEANER: TYPE: PVC; FORM: COMPOUND; CONTAINER: CAN 1 L; TRADE NAME: DURASOL K5; REFERENCE NO: K5; CONFLEX ASB CEMENT, DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY	L		1	
89.	142318	CONTACT, AUXILIARY: FOR USE ON MITSUBISHI AIR CIRCUIT MODULE AE2500S, END DETAIL DESCRIPTION	EA		1	
90.	139328	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		VAC; CONNECTION: CAPTIVE SCREW; REFERENCE NO: 35B14002A; 2 CIRCUIT; 2.5 W				
91.	138310	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; CURRENT: 3 A; POTENTIAL: 415 VAC; REFERENCE NO: C32/C63; FOR USE ON MERLIN GERIN MAIN CIRCUIT BREAKER; SUPPLY VOLTAGE 220VAC; BREAKING CAPACITY 6AMP	EA		1	
92.	139327	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; CURRENT: 6 A; POTENTIAL: 220 VAC; CONNECTION: CAPTIVE SCREW; SUPPL P/N: 3SB14000A; CIRCUIT: 4	EA		1	
93.	138003	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 600 VAC; REFERENCE NO: HS107; BLOCK; FOR AEG CONTACTOR MODEL LS247; FOR PRECIP RECTIFIER PANELS UNITS 1-6	EA		1	
94.	126502	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; CONNECTION: CAPTIVE SCREW; SUPPL P/N: UA-AX80; 4 CIRCUIT; FOR USE ON MITSUBISHI CONTACTOR MODELS SK80; SK95 AND SK125	EA		1	
95.	139334	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 1NO 1NC; CONNECTION: CAPTIVE SCREW; REFERENCE NO: CA3P-11; 4 CIRCUIT; FOR SPRECHER AND SCHUH CONTACTOR CA3-12-10; SPRECHER AND SCHUH BRAND ONLY	EA		1	
96.	126501	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 2NO 1NC; POTENTIAL: 220 VAC; CONNECTION: CAPTIVE SCREW;	EA		1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		REFERENCE NO: UA-AX21; 8 CIRCUIT; FOR USE ON MITSUBISHI CONTACTOR MODELS SK21; SK25; SK35; SK50 AND SK65				
97.	126503	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 2NO 1NC; CONNECTION: CAPTIVE SCREW; SUPPL P/N: UA-AX150; 4 CIRCUIT; FOR USE ON MITSUBISHI CONTACTOR MODEL SK150	EA		1	
98.	139383	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 16 A; POTENTIAL: 690 VAC; CONNECTION: CAPTIVE SCREW; REFERENCE NO: CA3-P-22; 8 CIRCUIT, FOR USE WITH CA3-12 OR CA3-16 CONTACTOR	EA		1	
99.	139341	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 4NO; CURRENT: 32 A; POTENTIAL: 660 VAC; REFERENCE NO: P-3S10; UC-O10; BANK	EA		1	
100.	125795	CONTACT, AUXILIARY: CONTACT ARRANGEMENT: 4NO; CONNECTION: CAPTIVE SCREW; REFERENCE NO: CA2-AD; CIRCUIT: 8	EA		1	
101.	137966	CONTACT, AUXILIARY: TYPE: CIRCUIT BREAKER; CONTACT ARRANGEMENT: 1NO 1NC; CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION: CAPTIVE SCREW; REFERENCE NO: 3VE9301-AA00; 4 CIRCUIT; FOR USE ON MOTOR PROTECTION 3VE3000 SERIES	EA		1	
102.	666380	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 4 A; POTENTIAL: 230 V; MATERIAL: PLASTIC; MANUF P/N: CAL4-11	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
103.	666386	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 4 A; POTENTIAL: 230 V; MATERIAL: PLASTIC; MANUF P/N: CAL19-11	EA		1	
104.	666388	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 3NO 1NC; CURRENT: 4 A; POTENTIAL: 230 V; MATERIAL: PLASTIC; MANUF P/N: CAL19-11B	EA		1	
105.	125081	CONTACT, AUXILIARY: TYPE: RELAY; CONTACT ARRANGEMENT: 1NC; CURRENT: 10 A	EA		1	
106.	137800	CONTACT, AUXILIARY: TYPE: RELAY; CONTACT ARRANGEMENT: 1NO; CURRENT: 10 A	EA		1	
107.	125080	CONTACT, AUXILIARY: TYPE: RELAY; CONTACT ARRANGEMENT: 1NO; CURRENT: 16 A; PRESSURE SPADE TERMINAL	EA		1	
108.	139043	CONTACT, MOVEABLE: POTENTIAL: 18/420 KVAC; MATERIAL: CU; REFERENCE NO: 5472853A; FOR 560 MVA ASEA GENERATOR TRANSFORMER 18/420KV	EA		1	
109.	139370	CONTACT, MOVEABLE: POTENTIAL: 500 VAC; CURRENT: 2.5 KA; MATERIAL: CU SILVER PLTD; PRECIP BRD	EA		1	
110.	124295	CONTACT, MOVEABLE: MATERIAL: CU SILVER PLTD; CONNECT; B/BAR FM 3.3KV S/GEAR	EA		1	
111.	139336	CONTACT, MOVEABLE: MATERIAL: CU SILVER PLTD; REFERENCE NO: 5472066B; 700MVA TR	EA		1	
112.	139337	CONTACT, MOVEABLE: MATERIAL: CU SILVER PLTD; REFERENCE NO: 5472066C; 700MVA TR	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
113.	139369	CONTACT, STATIONARY: CURRENT: 2.5 KA; POTENTIAL: 500 V; MATERIAL: CU SILVER PLTD; PREC	EA		1	
114.	125085	CONTACT, STATIONARY: CURRENT: 20 A; POTENTIAL: 250 V; MATERIAL: STL; SUPPL P/N: 43150020; MALE INSERT; FOR FOR USE ON ACTUATOR BODY CONNECTOR; CRIMP TERMINAL; ORDER CODE C-ST; 0.7 TO 1MM SQUARE	EA		1	
115.	125086	CONTACT, STATIONARY: CURRENT: 20 A; POTENTIAL: 250 V; MATERIAL: STL; SUPPL P/N: FEMALE INSERT; 43250021; FOR CRIMPING TERMINAL; ORDER CODE C-BU; 0.7 TO 1MM SQUARE; FOR USE ON CABLE ACTUATOR PLUG CONNECTOR	EA		1	
116.	139339	CONTACT, STATIONARY: CURRENT: 700 MVA; MATERIAL: CU; REFERENCE NO: 5231710A; TR	EA		1	
117.	139314	CONTACT, STATIONARY: MATERIAL: CU SILVER PLTD; REFERENCE NO: FQC800TPN; FOR USE WITH FUSE SWITCH TYPE FQC 800 TP+N; CONSISTING OF 3X MOUNTING ARM ASSEMBLIES AND 6X FIXED CONTACTS	EA		1	
118.	139340	CONTACT, STATIONARY: MATERIAL: CU; REFERENCE NO: 5231710C; 700MVA TR	EA		1	
119.	143194	CONTACTOR: COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 1NO; SUPPL P/N: CA3-12; REFERENCE NO: CA3-12-220V50-10	EA		1	
120.	128126	CONTACTOR: LINE VOLTAGE: 380 VAC; COIL VOLTAGE: 220 VAC; REFERENCE NO: 6DT-10060BK; ANALOG; FORWARD AND	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		REVERSE; FOR USE ON 50 PCT BLOWDOWN REGULATING VALVES; SIEMENS BRAND				
121.	128163	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110 V; COIL VOLTAGE: 220 VAC; CURRENT: 20 A; POLE: 4; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: SR422; RELAY; FOR USE ON 380V BOARDS; MITSUBISHI BRAND; ENCLOSURE: GENERAL PURPOSE	EA		1	
122.	128296	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 6 A; POLE: 4; REFERENCE NO: 910-332-164-00; LS02; AUXILLIARY RELAY; AEG BRAND; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
123.	128189	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/500 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 10 A; POLE: 4; SUPPL P/N: DILR 22-G(22VDC); FOR USE ON DIESEL GENERATOR; ENCLOSURE: GENERAL PURPOSE	EA		1	
124.	128284	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/550 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 20 A; POLE: 4; CONTACT ARRANGEMENT: 4NO 4NC; REFERENCE NO: SRD844; RELAY; FOR USE ON 380V BOARDS; MITSUBISHI BRAND; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
125.	128270	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 20 A; POLE: 8; REFERENCE NO: 910-302-563-00; SH8-44E; AUXILLIARY	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		RELAY; AEG BRAND; ENCLOSURE: GENERAL PURPOSE; 3PHSE				
126.	128295	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 16 A; POLE: 8; CONTACT ARRANGEMENT: 6NO 2NC; REFERENCE NO: 910-302-597-00; SH8-62E; AUXILLIARY RELAY; AEG BRAND; ENCLOSURE: GENERAL PURPOSE	EA		1	
127.	125543	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VAC; CURRENT: 200 A; POLE: 2; ENCLOSURE RATING: IP67; REFERENCE NO: 220V-DC 200 AMP; 2XPN1; 190-EA2; B.O.C & POLE 512; 4XGMHZXGM2; GB22; MAGNET EK1; CV1-GB; VARIABLE COMPOSITION BAR MOUNTED; 6 AUXILIARY CONTACT S	EA		1	
128.	143218	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/240/380/440/500/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 75 A; POLE: 3; ENCLOSURE RATING: GENERAL PURPOSE; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: SK-80; 37 KILOWATT	EA		1	
129.	128182	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; POLE: 1; ENCLOSURE RATING: OPEN; REFERENCE NO: CV1 GB21	EA		1	
130.	128183	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 125 A; POLE: 1; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO(GM) 1NC(GM2); SUPPL P/N: CV1-GB21; MAGNET EK1 BLOW OUT COIL 512; 1 NORMALLY OPEN MAIN POLE (PM1); TELEMECANIQUE BRAND	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
131.	128185	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 125 A; POLE: 1; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO(GM2) 1NC(GM1); SUPPL P/N: CV1-GB21; MAGNET EK1 BLOW OUT COIL 513; 1 NORMALLY OPEN MAIN POLE (PM1); TELEMECANIQUE BRAND	EA		1	
132.	128181	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 125 A; POLE: 2; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO (GM2); REFERENCE NO: CV1-GB22; MAGNET EK1 BLOW OUT COIL 519; 2 NORMALLY OPEN MAIN POLE (PM1); TELEMECANIQUE BRAND	EA		1	
133.	128184	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 125 A; POLE: 2; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO(GM2) 4NC(GM1); SUPPL P/N: CV1-GB22; MAGNET EK1 BLOW OUT COIL 513; 2 NORMALLY OPEN MAIN POLE (PM1); TELEMECANIQUE BRAND	EA		1	
134.	128178	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 13 A; POLE: 1; ENCLOSURE RATING: OPEN; SUPPL P/N: CV1- FB21	EA		1	
135.	128176	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 200 A; POLE: 1; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 1NC(GM1); SUPPL P/N: CV1- HB21; REFERENCE NO: CV1-HB21; MAGNET EK1 BLOW OUT COIL 513; 1 NORMALLY OPEN MAIN POLE (PM1); TELEMECANIQUE BRAND	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
136.	125681	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 320 A; POLE: 1; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO(GM2) 1NC(GM1); REFERENCE NO: CV1-JB21; MAGNET EK1 BLOW OUT COIL 513; 1 NORMALLY OPEN MAIN POLE (PM1); TELEMECANIQUE BRAND	EA		1	
137.	128179	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 50 A; POLE: 1; ENCLOSURE RATING: OPEN; REFERENCE NO: CV1-GB21	EA		1	
138.	128175	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 64 A; POLE: 1; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO(GM2) 1NC(GM1); SUPPL P/N: CV1-FB21; REFERENCE NO: CV1-FB21; MAGNET EK1 BLOW OUT COIL 519; 1 NORMALLY OPEN MAIN POLE (PM1); TELEMECANIQUE BRAND	EA		1	
139.	128177	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 64 A; POLE: 2; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO(GM2) 4NC(GM1); REFERENCE NO: CV1-FB22; MAGNET EK1 BLOW OUT COIL 519; 2 NORMALLY OPEN MAIN POLES (PM1); TELEMECANIQUE BRAND	EA		1	
140.	128180	CONTACTOR: TYPE: CONTROL; COIL VOLTAGE: 220 VDC; CURRENT: 64 A; POLE: 2; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT: 2NO(GM2) 4NC(GM1); SUPPL P/N: CV1-FB22; MAGNET EK1 BLOW	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		OUT COIL 514; 2 NORMALLY OPEN MAIN POLES (PM1); TELEMECANIQUE BRAND				
141.	128149	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 10 A; POLE: 4; REFERENCE NO: CA2-AK4ZM; RELAY; CA2AK4; ENCLOSURE: GENERAL PURPOSE	EA		1	
142.	128150	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 10 A; POLE: 4; REFERENCE NO: CA2-AN4ZM; RELAY; CA2AN4; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
143.	125679	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 10 A; POLE: 4; REFERENCE NO: CA2AN4-31; RELAY 220V CA2-AN4-31 TELE; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
144.	128314	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 30 A; POLE: 4; CONTACT ARRANGEMENT: 3NO 2NC; SUPPL P/N: BBC B9-30-32; 3 POLE; BBC ORDER CODE FPL-142- 1001R0326; ENCLOSURE: GENERAL PURPOSE	EA		1	
145.	128337	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 20 A; POLE: 4; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: CS3C-22E; RELAY; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
146.	128334	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 240	EA		1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		VDC; CURRENT: 20 A; POLE: 4; REFERENCE NO: CS-3C/40E; RELAY; SPRECHER AND SCHUH BRAND; ENCLOSURE: GENERAL PURPOSE				
147.	126824	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 380 VAC; CURRENT: 25 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: DIL-0-22M; KLOCKNER MOELLER BRAND; ENCLOSURE: GENERAL PURPOSE	EA		1	
148.	143322	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 240/600 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 10 A; POLE: 4; CONTACT ARRANGEMENT: 4NO; SUPPL P/N: KC40E; REFERENCE NO: FPH414-3001-R0405; AUXILIARY; BBC; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
149.	127954	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 3.3/6.6 KV; COIL VOLTAGE: CC 220 VAC; TC 220 VDC; CURRENT: 400 A; POLE: 3; SUPPL P/N: CV6H; REFERENCE NO: VC119; VACUUM; 3.3KV; COMPLETE WITH 110VDC COIL; TOYO DENKI BRAND; ENCLOSURE: GENERAL PURPOSE	EA		1	
150.	13367	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 380/500 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 6 A; POLE: 4; SUPPL P/N: GHH1316316V0; REFERENCE NO: HSC31; AUXILIARY; BBT; ENCLOSURE: GENERAL PURPOSE	EA		1	
151.	126840	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 10 A; POLE: 2; REFERENCE NO:	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CA2AN2; TELEMEC; 110V COIL; ENCLOSURE: GENERAL PURPOSE				
152.	143318	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 16 A; POLE: 4; CONTACT ARRANGEMENT: 2NO 2NC; AUXILIARY; TYPE K22E; BBC ORDER CODE FPH141-1001-R0226; COIL 50HZ; ENCLOSURE: GENERAL PURPOSE	EA		1	
153.	128191	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 16 A; POLE: 8; REFERENCE NO: DIL08-62D; RELAY; FOR USE ON DIESEL GENERATOR; KLOCKNER-MOELER BRAND; ENCLOSURE: GENERAL PURPOSE	EA		1	
154.	143317	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 16 A; POLE: 8; CONTACT ARRANGEMENT: 4NO 4NC; SUPPL P/N: K44E; AUXILIARY; BBC ORDER CODE FPH142-1001-R0446; COIL 50 HZ; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
155.	143319	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 16 A; POLE: 8; CONTACT ARRANGEMENT: 5NO 3NC; SUPPL P/N: K53E; AUXILIARY; BBC ORDER CODE FPH142-1001-R0536; 50HZ; ENCLOSURE: GENERAL PURPOSE	EA		1	
156.	151537	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 600 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 10 A; POLE: 4; REFERENCE NO:	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CA2-DN222; TIMER; ENCLOSURE: GENERAL PURPOSE				
157.	128136	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 600 VAC; COIL VOLTAGE: 550 VAC; CURRENT: 10 A; POLE: 10; SUPPL P/N: 4N8; RELAY; LATCHING; 380V COIL; ENCLOSURE: GENERAL PURPOSE; MTE	EA		1	
158.	664492	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 190 A; POLE: 3; MANUF P/N: AF190	EA		1	
159.	664493	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 205 A; POLE: 3; MANUF P/N: AF205	EA		1	
160.	664494	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 265 A; POLE: 3; MANUF P/N: AF265	EA		1	
161.	664496	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 305 A; POLE: 3; MANUF P/N: AF305	EA		1	
162.	664490	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 96 A; POLE: 3; MANUF P/N: AF96	EA		1	
163.	143196	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 115/600 VAC; COIL VOLTAGE: 110 V; CURRENT: 20 A; POLE: 3; ENCLOSURE RATING: OPEN; CONTACT ARRANGEMENT:	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		OPEN; REFERENCE NO: CR205AP0B; 600V; FOR USE ON HYDROGEN GENERATING PLANT				
164.	125495	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 115/600 VAC; COIL VOLTAGE: 110 VAC; CURRENT: 55 A; POLE: 1; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: LC1- D123M; 5.5KW; 380VAC; WITH 220VAC COIL; TELEMECANIQUE BRAND; ENCLOSURE: GENERAL PURPOSE	EA		1	
165.	128188	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 115/600 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 35 A; POLE: 3; REFERENCE NO: DIL0-0-52-C-G; 4KW; WITH 250 OHM RESISTOR; ENCLOSURE: GENERAL PURPOSE	EA		1	
166.	128187	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 115/660 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 35 A; POLE: 3; REFERENCE NO: DIL0-11; 7.5KW; 380VAC; COMPLETE WITH 220VAC COIL; KLOCKNER MOELLER BRAND; ENCLOSURE: GENERAL PURPOSEV; 3PHSE	EA		1	
167.	142542	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/380 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 135 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: SK95; SHELL; 55KW; MITSUBISHI BRAND ONLY; ENCLOSURE: GENERAL PURPOSE	EA		1	
168.	126968	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 80 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: 3ZX1012-ORT03-1AA1; RATED OPERATIONAL CURRENT AT 380V: 32A; RATED OUTPUT AT	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		380V: 15KW; SIEMENS; ENCLOSURE: GENERAL PURPOSE				
169.	128198	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/550 VAC; COIL VOLTAGE: 220-240 VAC; CURRENT: 10 A; POLE: 4; CONTACT ARRANGEMENT: 4NO; REFERENCE NO: 4N8; 01002450025; 50HZ; BREAK BEFORE MAKE; CONVERTIBLE; ENCLOSURE: GENERAL PURPOSE	EA		1	
170.	128297	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 110 VAC; CURRENT: 32 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: LS1722E; E910-302-677-88; AEG; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
171.	143233	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 25 A; POLE: 2; REFERENCE NO: LC2-D099M; FORWARD AND REVERSE; 4KW; ENCLOSURE: GENERAL PURPOSE	EA		1	
172.	128269	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 350 A; POLE: 3; ENCLOSURE RATING: GENERAL PURPOSE; CONTACT ARRANGEMENT: 1NO 1NC; REFERENCE NO: 910-338-071-00; LS247; 380VAC; 132KW; TWO SETS OF AUXILIARY CONTACT; FOR USE ON PRECIP RECTIFIER PANELS	EA		1	
173.	128287	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 110 VAC; CURRENT: 20 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: E910-302-537-88; LS422E; AUXILIARY	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CONTACTS 2 NO PART NUMBER HS05.20 AND 2 NC PART NUMBER HS05.22; AEG; ENCLOSURE: GENERAL PURPOSE				
174.	128174	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 110 VAC; CURRENT: 200 A; POLE: 3; ENCLOSURE RATING: CLOSE; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: S-K150; 75 KW, COIL FITTED	EA		1	
175.	126367	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 200 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: S-C150; MITSUBISHI BRAND; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		1	
176.	143195	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 230/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 20 A; POLE: 3; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: CA3-16-220VAC10; ENCLOSURE: GENERAL PURPOSE	EA		1	
177.	142541	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380 VAC; CURRENT: 50 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N50CX-400; 22KW; WITH COIL; ENCLOSURE: GENERAL PURPOSE	EA		1	
178.	142538	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/440 VAC; COIL VOLTAGE: 220 V; CURRENT: 22 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; MAXIMUM CURRENT RATING: 32 A; SUPPL P/N: S-N21; 11KW; WITH COIL; ENCLOSURE: GENERAL PURPOSE	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
179.	128172	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/440 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 62 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N65-220; 30KW; ENCLOSURE: GENERAL PURPOSE	EA		1	
180.	142539	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 30 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N25-220; 15KW; ENCLOSURE: GENERAL PURPOSE	EA		1	
181.	142540	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/500 VAC; CURRENT: 40 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N35CX-400; 18.5KW; WITHOUT COIL; ENCLOSURE: GENERAL PURPOSE	EA		1	
182.	128173	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/690 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 120 A; POLE: 3; SUPPL P/N: S-N125-220; 60KW; ENCLOSURE: GENERAL PURPOSE	EA		1	
183.	669981	CONTROLLER: TYPE: LIFT DOOR DRIVE; RANGE: -15 TO 50 DEG C; RATING: 80 W; APPLICATION: OTIS LIFT; OUTPUT: 0-24 V; MOUNTING: SCREW; INPUT: 24 VAC; MANUF P/N: 903510G015-L; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
184.	671215	CONTROLLER: TYPE: LIFT LCB2 BOARD; RANGE: -15 TO 50 DEG C; RATING: 110 V;	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		APPLICATION: OTIS LIFT; MANUF P/N: GGA21240D-1; POWER SOUCE 51 KW; DIMENSIONS WD 220 X LG 240 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
185.	666028	CONTROLLER: TYPE: LIFTING CAR; RANGE: 0-128 H2 FREQUENCY; RATING: 180-265 V 3.1 A INPUT; APPLICATION: ELEVATOR LIFT CAR; OUTPUT: 3 A; MOUNTING: BOLTED; INPUT: AC; SUPPL P/N: GBA24350BH 1; SEMICONDUCTOR CONVERTER: TYPE: DCSS5-E, PART NO: GBA2435DBH1IP20 PROTECTION; INPUT = 1 PHASE AC 180-265 VAC 3.1 MAX AMPS 3 PHASES OUTPUT; 0-128 H2 OUTPUT; 3 A MAX OUTPUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
186.	144704	CORD, ELECTRICAL: TYPE: EXPANDA; SUPPL P/N: 332825-5025; REFERENCE NO: IK545B; (4) STRANDED COPPER CONDUCTOR SIZE 2.5MM SQUARE, PVC CONDUCTOR INSULATION, SPECIAL RUBBER COVERING, COMPLETE WITH RUBBER MOULD-ON PLUGS ON EACH END, 90 DEGREE CR-49 14/4 TYPE SO, "EPM" INSULATED WITH "HYTREL" SHEATH COILED RETRACTA-FLEX, CONSTRUCTED IN LEFT HAND COILED FORM, COMPLETE WITH MALE AND FEMALE COUPLINGS	EA		1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
187.	123628	CORD, ELECTRICAL: TYPE: EXPANDA; SUPPL P/N: 332825-5025; REFERENCE NO: IK545B; (4) STRANDED COPPER CONDUCTOR SIZE 2.5MM SQUARE, PVC CONDUCTOR INSULATION, SPECIAL RUBBER COVERING, COMPLETE WITH RUBBER MOULD-ON PLUGS ON EACH END, 90 DEGREE CR-49 14/4 TYPE SO, "EPM" INSULATED WITH "HYTREL" SHEATH COILED RETRACTA-FLEX, CONSTRUCTED IN LEFT HAND COILED FORM, COMPLETE WITH MALE AND FEMALE COUPLINGS	EA		1	
188.	177377	COMPRESSOR, AIR: CAPACITY: 20 KV; DISCHARGE PRESSURE: 250 BAR; POTENTIAL: 380 VAC; POWER: 15 KW; SUPPL P/N: SVC 600/250; 3PH, PISTON DISPLACEMENT: 755 1/MIN, FREE AIR DELIVERY: 585 1/MIN, STAGES: 4, CYLINDER: 4, ELECTRIC MOTOR: REVOLUTIONS: 1450 MIN, WEIGHT: 440 KG, LENGTH: 1205 MM, WIDTH: 890 MM, HEIGHT: 925 MM, OIL CAPACITY: 9,51; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
189.	571057	COMPRESSOR, AIR: CAPACITY: 52.36 M3/MIN; DISCHARGE PRESSURE: 760 KPA; POTENTIAL: 3.3 KVDC; POWER: 300 KW; CURRENT: 58 A; DRIVER: MOTOR; REFERENCE NO: C400; DISCHARGE PRESSURE 760 KPA; INTAKE TEMPERATURE 35 DEG CELSIUS; INLET PRESSURE 0.830 (ABSOLUTE); COUPLING POWER 300KW; HUMIDITY 60%;	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		ROTATING SPEED 2975 RPM; CW TEMPERATURE 27 DEG C; CW FLOW 460 LITRE/MIN; S17200 PLC TO CONTROL COMPRESSOR DRYER AND COOLING WATER PUMPS; 2 X 380 V COOLING WATER PUMPS INCLUDING GALVANISED CARBON STEEL WATER PIPES; INTAKE AND DISCHARGE GALVANIZED CARBON STEEL PIPEWORK FOR THE COMPRESSOR WITH COMPLETE INTAKE FILTER EQUIPMENT WITH DIFFERENTIAL PRESSURE MONITORING; SERVICE TOOL TO ENABLE UNLIMITED FAULT FINDING ON THE COMPRESSOR; A CT TO BE CONNECTED ON ON PHASE OF POWER CABLE TO CATER FOR 1 AMP INSTEAD OF 5 AMPS; ALL POWER CABLES (COMPRESSOR, PUMPS, SWITCH GEAR TO COMPRESSOR ROOM); COOLING WATER FLOW AND TEMPERATURE TRANSMITTERS; COOLING WATER TEMPERATURE AND PRESSURE GAUGES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
190.	43118	COMPRESSOR, REFRIGERATION: TYPE: AIR CONDITIONING; RATING: 380 V; REFERENCE NO: 754F5; MODEL DMRH 750; DWM COPELAND; FOR LABORATORY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
191.	670175	COMPRESSOR, REFRIGERATION: TYPE: AIR CONDITIONING; CAPACITY: 7.2 KW; DRIVER: ELECTRIC; RATING: 240 V; MANUF P/N: E12 821 900; MODEL NO: NN29VBAHT; 2440 W; 2760 KPA; 10.7 AMP; REFRIGERANT R410 A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
192.	214724	COMPRESSOR, REFRIGERATION: TYPE: CARRIER; CAPACITY: 25 HP; SUPPL P/N: 06EX250660; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
193.	214725	COMPRESSOR, REFRIGERATION: TYPE: CARRIER; CAPACITY: 35 HP; SUPPL P/N: 06EX275660; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
194.	177368	COMPRESSOR, REFRIGERATION: TYPE: CENTRIFUGAL; CAPACITY: 37 KW; RATING: 380-420 V 91 A; REFERENCE NO: D8RH5000; AIR CONDITIONING, 8 CYLINDER, COMPLETE WITH CAPACITY CONTROL, 220 V CRANKCASE HEATER, DIRECT ON LINE, 1450 RPM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
195.	229255	COMPRESSOR, REFRIGERATION: TYPE: COPELAMETIC; CAPACITY: 1500 BTU; MODEL NO: 9RT1-1500-FSM; FOR AIR CONDITIONING AT FIRST AID BUILDING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
196.	589102	COMPRESSOR, REFRIGERATION: TYPE: HERMETIC SCROLL; CAPACITY: 34.7 KW; RATING: 380 V; MODEL NO: ZR160KCE-TFD-523; 3 PHASE; 50 HZ; ENCLOSURE IP21(IEC 34); REFRIGERANT R22 AND R407C; BASE MOUNTING HOLES: 190 X 190 MM (8.5 MM HOLES) PED CATEGORY 2; THE FOLLOWING ACCESSORIES MUST BE INCLUDED: SUCTION AND DISCHARGE SERVICE VALVE SET RBS 0041, CRANKCASE HEATER 90W EXTERNAL RBS 0043 AND RUBBER MOUNTING GROMMETS; LENGTH 264 MM; WIDTH 285 MM; HEIGHT 552 MM; WEIGHT 64.9 KG; FOR UNIT 4 TO 6 PRECIPITATOR SWITCHGEAR ROOMS AIRCON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
197.	588608	COMPRESSOR, REFRIGERATION: TYPE: RECIPROCATING; CAPACITY: 15.37 KW; DRIVER: ELECTRIC MOTOR; RATING: 380 V; REFERENCE NO: MT 64 H 4CVE; 3 PHASE, 50 HZ; REFRIGERANT R22 AND R407C; MAX CONTINUOUS CURRENT 15 AMP; LOCK	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		ROTOR CURRENT 67 AMP; FOLLOWING TO BE INCLUDED: SUCTION SERVICE VALVE V07, DISCHARGE SERVICE VALVE V04, THREE MOUNTING GROMMET RUBBERS, CRANKCASE HEATER RDM4400; FOR USE AT INVERTER AIRCON ROOMS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
198.	595726	COMPRESSOR, REFRIGERATION: TYPE: RECIPROCATING; CAPACITY: 1/5 HP; DRIVER: ELECTRIC MOTOR; RATING: 150 W 50 HZ; REFRIGERANT R1349; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
199.	595727	COMPRESSOR, REFRIGERATION: TYPE: RECIPROCATING; CAPACITY: 1/8 HP; DRIVER: ELECTRIC MOTOR; RATING: 220-240 V 1 PH 50 HZ; REFRIGERANT R134A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
200.	579235	COMPRESSOR, REFRIGERATION: TYPE: ROTARY; CAPACITY: 22000 BTU; RATING: 220 VAC; TO BE DELIVERED COMPLETE WITH STARTING CAPACITOR; KLIXON THERMO-PROTECTOR; MOUNTING RUBBERS; THE BTU-SIZE MUST BE WRITTEN ON THE COMPRESSOR WITH A WHITE PERMANENT	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MARKER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
201.	579236	COMPRESSOR, REFRIGERATION: TYPE: ROTARY; CAPACITY: 24000 BTU; RATING: 220 VAC; TO BE DELIVERED COMPLETE WITH STARTING CAPACITOR; KLIXON THERMO-PROTECTOR; MOUNTING RUBBERS; THE BTU-SIZE MUST BE WRIITTEN ON THE COMPRESSOR WITH A WHITE PERMANENT MARKER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
202.	594866	COMPRESSOR, REFRIGERATION: TYPE: ROTARY; CAPACITY: 9000 BTU; RATING: 400 V 50 HZ; MODEL NO: TRK5512Y; 3 PHASE; REFRIGERANT R134A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
203.	579238	COMPRESSOR, REFRIGERATION: TYPE: SCROLL; CAPACITY: 52000 BTU; RATING: 380-420 VAC; REFRIGERANT R22; 3 PHASE; VOLUME 14,37 M3/H; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
204.	615682	COMPRESSOR, REFRIGERATION: TYPE: SCROLL; CAPACITY: 91500 BTU/HR; SUPPL	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		P/N: SH105A4ALC; REFERENCE NO: CF2502098515; INPUT 8.472 KW; RATED CURRENT (RLA) 16.7 A; REFRIGERANT OIL CHARGE 3000 ML; PRESSRE LP SIDE 33 BAR; HP SIDE 45 BAR; TEMPERATURE MIN -35 TO 55 DEG C; VOLUME 13.6 LITER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
205.	52334	CONE: DIMENSIONS: LG 91 MM; MATERIAL: STL; SUPPL P/N: 908904-0032; 341607-1128; REFERENCE NO: 393371-1032; COMPLETE WITH NYLAFLOW TUBING LENGTH 91CM; KNOB; FOR SOOTBLOWER TYPE IK 545B; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		1	
206.	130472	TRANSFORMER, CURRENT: POTENTIAL: 0.66 KV; APPARENT POWER: 5 VA; INCLOSURE TYPE: ENCAPSULATED; TYPE: INSTRUMENT; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING BRACKET HOLE DIMENSIONS 105MM CENTRE TO CENTRE, 20MM LONG SLOTTED HOLES, HOLE SIZE 7MM DIA, RING SIZE 130MM DIA, TOTAL HEIGHT 225MM, CURRENT RATING RATIO: 2000:1, RING, OUTDOOR	EA		1	
207.	130368	TRANSFORMER, CURRENT: POTENTIAL: 0.66 KV; APPARENT POWER: 7.5 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; WINDING TYPE: PRIMARY; SPECIFICATION: BS	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		S3938; TYPE: INSTRUMENT; REFERENCE NO: 03991; LOCATION OUTDOOR; CLASS 1, ON MOUNTING FEET, MOUNTING BRACKET HOLE DIMENSIONS 102MM CENTRE TO CENTRE, HOLES MUST BE SLOTTED 20MM LONG X 7MM, TOTAL HEIGHT 135MM, CURRENT RATING 5:1, RING				
208.	130387	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 1.5 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; SPECIFICATION: IEC 51; TYPE: INSTRUMENT; REFERENCE NO: 50-1; 0680; CLASS 3, ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 76MM, RING SIZE 25MM DIAMETER, CURRENT RATING 50:1, RING, OUTDOOR	EA		1	
209.	128693	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 10 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; WINDING TYPE: PRIMARY; SPECIFICATION: IEC 51; TYPE: INSTRUMENT; REFERENCE NO: 15-110VA; 0780; LOCATION OUTDOOR; INSULATION LEVEL CLASS 1, ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 78MM X 20MM, CURRENT RATING 15:1	EA		1	
210.	128694	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 10 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; REFERENCE NO: 0580; LOCATION OUTDOOR; CLASS 1, HIGH IMPACT; ON MOUNTING FEET, MOUNTING HOLES DIMENSIONS 76MM, RING SIZE MUST	EA		1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		NOT BE LESS THAN 25MM, CURRENT RATING 100:1, RING				
211.	130369	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 10 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; REFERENCE NO: 1280; LOCATION OUTDOOR; CLASS 1, ON MOUNTING FEET, MOUNTING HOLES DIMENSIONS 76MM, RING SIZE MUST NOT BE LESS THAN 25M, CURRENT RATING 25:1, RING	EA		1	
212.	130384	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 10 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; REFERENCE NO: 10VA.; LOCATION OUTDOOR; RATIO 10 TO 1AMPS, CLASS 1; ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 78MM X 20MM, ETC ONLY, CURRENT RATING 10:1	EA		1	
213.	130386	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 10 VA; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; REFERENCE NO: 40-1A; 0380; EIC 51; CLASS 1, HIGH IMPACT POLY CARBONATE CASE, MOULDED ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 78MM X 20MM, CURRENT RATING 40:1, LOCATION OUTDOOR	EA		1	
214.	130390	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 15 VA; INCLOSURE TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; REFERENCE NO:	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		AJ-19/1; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING BRACKET HOLE DIMENSIONS 165MM CENTRE TO CENTRE, 20MM LONG SLOTTED HOLES, HOLE SIZE 7MM DIAMETER, RING SIZE 104MM, TOTAL HEIGHT 210MM, CURRENT RATING 2000:1, RING, OUTDOOR				
215.	130374	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 5 VA; INCLOSURE TYPE: ENCAPSULATED; TYPE: INSTRUMENT; REFERENCE NO: A1-37; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING HOLE BRACKET DIMENSIONS 130MM CENTRE TO CENTRE, 20MM LONG SLOTTED HOLES, HOLE SIZE 7MM DIA, RING SIZE 59MM, TOTAL HEIGHT 1225MM, CURRENT RATING RATIO 300:1, RING, OUTDOOR	EA		1	
216.	130372	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 5 VA; INCLOSURE TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; REFERENCE NO: 08962/1; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING HOLE DIMENSIONS 130MM CENTRE TO CENTRE, SLOTTED HOLES 20MM, HOLE SIZE 7MM DIA, RING SIZE 59MM DIAMETER, TOTAL HEIGHT 140MM, CURRENT RATING 150:1, RING, OUTDOOR	EA		1	
217.	130373	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 5 VA; INCLOSURE TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; REFERENCE NO:	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		3938; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING HOLE DIMENSIONS 115MM CENTRE TO CENTRE, 12MM LONG SLOTTED HOLES, HOLE SIZE 7MM DIA, RING SIZE 46MM, CURRENT RATING 250:1, RING, OUTDOOR				
218.	130388	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 5 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; SPECIFICATION: IEC 51; TYPE: INSTRUMENT; REFERENCE NO: 0579; ON MOUNTING FEET, MOUNTING HOLES DIMENSIONS 76MM, RING SIZE 25MM DIA, CURRENT RATING RATIO 60:1, RING, OUTDOOR	EA		1	
219.	130389	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 5 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; SPECIFICATION: IEC 51; TYPE: INSTRUMENT; REFERENCE NO: 0580; CLASS 3, ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 76MM, RING SIZE 25MM, CURRENT RATING 100:1, RING, OUTDOOR	EA		1	
220.	130464	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 5 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; TYPE: INSTRUMENT; REFERENCE NO: 92.273; LOCATION OUTDOOR; CLASS 1; ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 76MM, CURRENT RATING 1:1	EA		1	
221.	128692	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 7.5 VA; INCLOSURE TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; REFERENCE NO:	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		83-7-CA-7; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING BRACKET HOLE DIMENSIONS 102MM CENTRE TO CENTRE, HOLES MUST BE SLOTTED 20MM LONG X 7MM DIAMETER, RING SIZE 38MM, CURRENT RATING 250:1, OUTDOOR				
222.	130469	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 7.5 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; TYPE: INSTRUMENT; REFERENCE NO: 9-193-54; CLASS 3, ON MOUNTING FEET, MOUNTING HOLES DISTANCE 76MM, RING SIZE MUST BE LESS THAN 25MM DIA, CURRENT RATING RATIO 150:1, RING, LOCATION OUTDOOR	EA		1	
223.	130467	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; APPARENT POWER: 7.5 VA; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; REFERENCE NO: 0179; RING, CLASS 1, HIGH IMPACT POLYCARBONATE CASE MOULDED ON MOUNTING FEET, MOUNTING HOLES DIMENSIONS 76MM, RING SIZE MUST NOT BE LESS THAN 25MM, CURRENT RATING 60:1, LOCATION OUTDOOR	EA		1	
224.	129070	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; INCLOSURE TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKET, MOUNTING BRACKET HOLE DIMENSIONS 102MM CENTRE TO CENTRE, HOLES MUST BE SLOTTED 20MM LONG X 7MM DIAMETER,	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		RING SIZE 38MM DIAMETER, CURRENT RATING 100:1, RING, OUTDOOR				
225.	129085	TRANSFORMER, CURRENT: POTENTIAL: 0.66-3 KV; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; SPECIFICATION: IEC 51; TYPE: INSTRUMENT; MOUNTING HOLE SIZE 76MM, RING SIZE 25MM, ON MOUNTING FEET, CURRENT RATING RATIO 40:1, RING, LOCATION OUTDOOR	EA		1	
226.	130466	TRANSFORMER, CURRENT: POTENTIAL: 1.7-3 KV; APPARENT POWER: 10 VA; INCLOSURE TYPE: ENCAPSULATED; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING HOLE DIMENSIONS 130MM CENTRE TO CENTRE, HOLE SIZE 7MM DIAMETER, TOTAL HEIGHT 120MM, CURRENT RATING 20:1, RING, OUTDOOR	EA		1	
227.	130440	TRANSFORMER, CURRENT: POTENTIAL: 220-15 VAC; APPARENT POWER: 50/100 VA; TYPE: INSTRUMENT; NO CENTRE TAP ON SECONDARY WINDING, SINGLE INPUT AND OUTPUT ONLY, LOCATION INDOOR	EA		1	
228.	180005	TRANSFORMER, CURRENT: POTENTIAL: 4-16 KV; CURRENT: 150 A; APPARENT POWER: 15 VA; CURRENT RATIO: 150:1; CLASS: 10P10; SUPPL P/N: BP151; ELECTRORESIN; 2 CORE; CORE ONE; RESISTANCE 0.9 OHM; CORE TWO CLASS ONE; VA 10; STC 17.5 KA; 0.5 SECONDS; FOR ASH PUMP SWITCHGEAR * WHITE PHASE; LENGTH 250MM; WIDTH 115MM; HEIGHT 370MM; 200MM ID	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
229.	130470	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 20 VA; TYPE: INSTRUMENT; REFERENCE NO: 01085/3; RING, CLASS 3, HIGH IMPACT POLYCARBONATE CASE MOULDED ON MOUNTING FEET, MOUNTING HOLES DISTANCE 76MM, RING SIZE MUST NOT BE LESS THAN 32MM DIA, CURRENT RATING 400:1, LOCATION OUTDOOR	EA		1	
230.	130624	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 20 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; TYPE: INSTRUMENT; REFERENCE NO: 1; CLASS 1, ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 112 X 112MM CENTRE TO CENTRE, MOUNTING HOLE SIZE 12MM DIAMETER WITH CLIP ON LOCKING DEVICE INSIDE THE HOLE, RING SIZES IN STEP FORM FOR THE FOLLOWING BUSBAR SIZES 1. 80 X 25MM HORIZONTAL 2. 60 X 31MM HORIZONTAL 3. 40 X 40MM HORIZONTAL 4. 80 X 25MM VERTICAL 5. 60 X 31MM VERTICAL, CURRENT RATING RATIO 1500:1, RING, INDOOR	EA		1	
231.	130371	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 3 VA; INCLOSURE TYPE: PC HIGH IMPACT MOLDED CASE; TYPE: INSTRUMENT; SERIES 1, ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 76MM, RING SIZE 31MM X 12MM BUSBAR, CURRENT RATING 100:1, RING, OUTDOOR	EA		1	
232.	130471	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; INCLOSURE	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TYPE: ENCAPSULATED; SPECIFICATION: BS S3938; TYPE: INSTRUMENT; CLASS 1, HIGH IMPACT RING WITH FIXED MOUNTING BRACKETS, MOUNTING BRACKET HOLE DIMENSIONS 105MM CENTRE TO CENTRE, 20MM LONG SLOTTED HOLES, HOLE SIZE 7MM DIA, RING SIZE 111MM DIA, TOTAL HEIGHT 205MM, CURRENT RATING 1200:1, RING, INDOOR				
233.	128963	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; TYPE: INSTRUMENT; CL 1, CURRENT RATING 150:5, RING LOCATION: INDOOR	EA		1	
234.	130468	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; TYPE: INSTRUMENT; REFERENCE NO: 1178; CLASS 1, RING, HIGH IMPACT POLY CARBONATE CASE MOULDED ON MOUNTING FEET, MOUNTING HOLE DIMENSIONS 76MM, RING SIZE 25MM, CURRENT RATING 75:1, LOCATION OUTDOOR	EA		1	
235.	130465	TRANSFORMER, CURRENT: POTENTIAL: 660 V; APPARENT POWER: 5 VA; WINDING TYPE: PRIMARY; TYPE: INSTRUMENT; REFERENCE NO: 0879; RING, CLASS 1, HIGH IMPACT POLYCARBONATE CASE MOULDED ON MOUNTING FEET, MOUNTING HOLES DIMENSIONS 76MM, RING SIZE MUST NOT BE LESS THAN 25MM, CURRENT RATING 15:1, LOCATION OUTDOOR	EA		1	
236.	129032	TRANSFORMER, CURRENT: POTENTIAL: 660-2500 V; TYPE: INSTRUMENT; 10/1A CL 10P10, CURRENT RATING 10:1 LOCATION: INDOOR	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
237.	240551	SOLENOID, ELECTRICAL: COIL VOLTAGE: 196 VDC; TYPE Y4 MILL; 100 PCT EDM 0.14A; 9831; KC3318; KTS G35 A12	EA		1	
238.	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			1	
239.	0118268	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 6,3X32; 6.3X32; REFERENCE NO: 19232			1	
240.	0119171	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193			1	
241.	0224358	FUSE, CARTRIDGE: CURRENT: 1 A; POTENTIAL: 11 KV; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 21 X LG 195 MM; TYPE: HIGH VOLTAGE; CASE MATERIAL: PORCELAIN; REFERENCE NO: RCP11			1	
242.	0118840	FUSE, CARTRIDGE: CURRENT: 1 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 15 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: GLASS; SUPPL P/N: 0231504; FOR INSTRUMENT SUPPLY, FOR CONTROL AND INSTRUMENTATION BOILER TURBINE UNITS 1-6 AND WATER TREATMENT PLANT			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
243.	0118861	FUSE, CARTRIDGE: CURRENT: 1 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; REFERENCE NO: MGC			1	
244.	0118488	FUSE, CARTRIDGE: CURRENT: 1 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.35 X LG 31.8 MM; TYPE: SLOW BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 632.000; MDL1; TIME DELAY, RATINGS 20 SECONDS AT 200 PCT LOAD AND 25 MILLI SECONDS AT 1000 PCT LOAD			1	
245.	0118828	FUSE, CARTRIDGE: CURRENT: 1.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 15 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS			1	
246.	0118856	FUSE, CARTRIDGE: CURRENT: 1.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 15 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS			1	
247.	0004508	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 50 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS10; REFERENCE NO: 5001301			1	
248.	0118443	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19180			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
249.	0118831	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19232			1	
250.	0004509	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 415 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: NS10A; FUSE, CARTRIDGE; CURRENT 10 A, POTENTIAL 415 V, DIMENSIONS DIA 14 X LG 60 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS10A FUSE,CARTD;NS10A,10 A,415 V,BLADE KNIFE; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
251.	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			1	
252.	0118444	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 415-500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 36 MM; TYPE: SLO BLO, INDICATING; CASE MATERIAL: CERAMIC; SPECIFICATION: DIN 49 522; REFERENCE NO: 5SE2010; NEOZED, OPERATION CLASS GL TO VDE			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
253.	0669505	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LOW VOLTAGE; CASE MATERIAL: CERAMIC; MANUF P/N: FR10GG50V10; REFERENCE NO: FUS 098M; CLASS GG			1	
254.	0118324	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: PORCELAIN; SUPPL P/N: NFC 63210; REFERENCE NO: 133.10; PULLCAP, NORMAL CEI2692			1	
255.	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			1	
256.	0118148	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 50 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO: 5SB25; 5SA151; DIAZED			1	
257.	0118786	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 50 MM; TYPE: TIME DELAY SLO BLO, DUAL ELEMENT; CASE MATERIAL: CERAMIC; SUPPL P/N: TNDZ; REFERENCE NO: 5SA251; DIAZED			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
258.	0117224	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 550 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 86 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: TIA10; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY			1	
259.	0118146	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 13 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT10; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED			1	
260.	0643550	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 420 VAC; CONNECTION TYPE: SLOTTED; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: STRIKER PIN; SPECIFICATION: 422200; SUPPL P/N: FUS7			1	
261.	0118189	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 500 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: WD 27 X LG 78 X HT 53 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SPECIFICATION: DIN 43620; HRC, GR 00 GL, WITH BLADE CONTACTS, PIN EXTENDS FRONT END			1	
262.	0623496	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 500 VDC; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 22 X LG 58 MM; INTERRUPT CAPACITY: 120 KA; TYPE: CYLINDRICAL; CASE MATERIAL: CERAMIC;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SPECIFICATION: EN60289; IEC 60289; SUPPL P/N: 422200				
263.	0117365	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 550 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 32 X LG 135 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: TC100			1	
264.	0117234	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26 X LG 110 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 2692; IEC 282-1; SUPPL P/N: TCP100			1	
265.	0118354	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 600 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: Q93900/621CPURG22100; SEMI CONDUCTOR, WITH TRIP INDICATOR, PROTISTOR			1	
266.	0669497	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 690 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 22 X LG 58 MM; INTERRUPT CAPACITY: 200 KA; TYPE: HIGH SPEED; CASE MATERIAL: CERAMIC; MANUF P/N: 492140; GR CYLINDRICAL FUSE WITH STRIKER			1	
267.	0118850	FUSE, CARTRIDGE: CURRENT: 125 A; POTENTIAL: 180-200 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 17 X			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; TYPE GSD OR APPROVED EQUIVALENT				
268.	0118355	FUSE, CARTRIDGE: CURRENT: 125 A; POTENTIAL: 400 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: PORCELAIN; WITHOUT TRIP INDICATOR, MOTOR PROTECTION USE			1	
269.	0117307	FUSE, CARTRIDGE: CURRENT: 125 A; POTENTIAL: 550 VAC; 460 VDC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 40 X LG 135 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TO BS 66-2; TF125; REFERENCE NO: B2; CLASS Q; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
270.	0117308	FUSE, CARTRIDGE: CURRENT: 150 A; POTENTIAL: 240-450 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 34 X LG 82 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: GSA150; HRC, FOR PROTECTION OF SEMICONDUCTORS			1	
271.	0118358	FUSE, CARTRIDGE: CURRENT: 150 A; POTENTIAL: 600 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 35 X LG 108 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		GSB150; HRC, FOR PROTECTION OF SEMICONDUCTORS				
272.	0004510	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 50 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS16			1	
273.	0117360	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; TYPE AGC			1	
274.	0117359	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 55 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT16; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED			1	
275.	0004501	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: TIME LAG MEDIUM; CASE MATERIAL: CERAMIC; SUPPL P/N: NS16; FUSE, CARTRIDGE; CURRENT 16 A, POTENTIAL 415 VAC, DIMENSIONS DIA 14 X LG 60 MM, TYPE TIME LAG MEDIUM, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS16~FUSE,CARTD;NS16,16 A,415 VAC,CERAMIC			1	
276.	0004511	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 VAC; CONNECTION TYPE:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		FERRULE; DIMENSIONS: DIA 13 X LG 30 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: GLASS; REFERENCE NO: MD16A				
277.	0117225	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 84 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIA16; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
278.	0117375	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415-550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 26 X LG 126 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: B1-16; REFERENCE NO: TBC16			1	
279.	0212135	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; TYPE: ULTRA FAST LINK; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SD420; SILIZED, FOR SEMICONDUCTOR PROTECTION ON MILL FEEDERS UNIT 1, THREAD E27			1	
280.	0118172	FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 415 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 35 X LG 140 MM; TYPE: ONE TIME REJECTION; CASE MATERIAL: CERAMIC; REFERENCE NO: RGPG20G160			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
281.	0118357	FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 38 X LG 100 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: 96TY; SLOTTED PATTERN FIXING CENTRES = 76MM, DIAMETER = 26MM			1	
282.	0117367	FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 550 V; CONNECTION TYPE: SCREW CLAMP OFFSET TAGS; DIMENSIONS: DIA 35 X LG 110 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88-1975; SUPPL P/N: TFP160			1	
283.	0117309	FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 660 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 34 X LG 134 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TF160; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
284.	0118677	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 19232; 601-030			1	
285.	0117144	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 19232; 601-030				
286.	0118308	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: BP1167583			1	
287.	0118437	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 412-403			1	
288.	0118857	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: TIME DELAY SLO BLO, DUAL ELEMENT; CASE MATERIAL: GLASS; REFERENCE NO: 19342; ATE			1	
289.	0669503	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 500 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: WD 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LOW VOLTAGE; CASE MATERIAL: CERAMIC; MANUF P/N: FR10GG50V2; REFERENCE NO: FUS 086M; CLASS GG			1	
290.	0118141	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 50 MM; TYPE: SLO BLO, BOTTLE, INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB211; DIAZED, TYPE TDZ, TIME DELAY, MARKING GL/GG			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
291.	0234983	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: GENERAL PURPOSE; CASE MATERIAL: CERAMIC; REFERENCE NO: GI10 2; ORDER NUMBER D94 234, WITHOUT TRIP INDICATOR			1	
292.	0118310	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 500 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 13 X LG 50 MM; TYPE: INDICATING; CASE MATERIAL: PORCELAIN; REFERENCE NO: 5SA211			1	
293.	0625894	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 550 V; CONNECTION TYPE: OFFSET BLADE TAGS; DIMENSIONS: DIA 13.8 X LG 58.7 MM; INTERRUPT CAPACITY: 80 KA; TYPE: HRC; CASE MATERIAL: CERAMIC; SPECIFICATION: NSD2; SUPPL P/N: NSD2; REFERENCE NO: NSD2			1	
294.	0643577	FUSE, CARTRIDGE: CURRENT: 2 A; CASE MATERIAL: GLASS; SUPPL P/N: FUSG022M			1	
295.	0004527	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 240 V; CONNECTION TYPE: BLADE KNIFE TAGS; DIMENSIONS: DIA 12 X LG 47 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS20; FUSE, CARTRIDGE; CURRENT 20 A, POTENTIAL 240 V, DIMENSIONS DIA 12 X LG 47 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE TAGS, PART NUMBER: SS20~FUSE,CARTD;SS20,20 A,240 V,CERAMIC			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
296.	0118218	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: AGC-NEOS			1	
297.	0118860	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: TIME DELAY SLO BLO, DUAL ELEMENT; CASE MATERIAL: GLASS; REFERENCE NO: 202000			1	
298.	0117651	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 380 VAC; 250 VDC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 15 X LG 36 MM; TYPE: FAST BLOW, ONE TIME REJECTION, BOTTLE; CASE MATERIAL: CERAMIC; REFERENCE NO: 5SE2020; NEOZED			1	
299.	0117361	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 415 VAC; 250 VDC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 55 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT20; TAG ONE SIDE, TWO HOLES			1	
300.	0117226	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 415 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 13.9 X LG 60.3 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: NS20; FUSE, CARTRIDGE; CURRENT 20 A, POTENTIAL 415 VAC, DIMENSIONS DIA 13.9 X LG 60.3 MM, TYPE CURRENT LIMITING, CASE MATERIAL			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS20~FUSE, CARTD; NS20,20 A,415 VAC, CERAMIC; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3				
301.	0117227	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 84 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIA20; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
302.	0118298	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: LUG KNIFE BLADE AXIAL CENTER; DIMENSIONS: WD 27 X LG 78 X HT 58.5 MM; TYPE: TIME DELAY INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 3NA3807; INCLOSED LINK, ONE TIME, PIN EXTENDS FROM END			1	
303.	0004520	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 50 MM; TYPE: BOTTLE SLO BLO INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB271; DIAZED, TYPE TDZ, TIME DELAY, MARKING GL/GG			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
304.	0118329	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: INSTANTANEOUS ONE TIME REJECTION; CASE MATERIAL: CERAMIC; NORMAL OPERATING, 10 MM DIA HOLE			1	
305.	0118845	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500-660 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 14 X LG 51 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: PORCELAIN; REFERENCE NO: T93420; SEMI CONDUCTOR, WITHOUT TRIP INDICATOR, FERRAZ BRAND			1	
306.	0625780	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 550 V; CONNECTION TYPE: BOLT IN; DIMENSIONS: DIA 13.8 X LG 84.68 MM; TYPE: AAO20; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88.2:AAO20 HRC GG; SUPPL P/N: AAO20; REFERENCE NO: AAO20			1	
307.	0118785	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 25 X LG 127 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: B1-20; 50-7000-01; TBC20; HRC, 80, WITH 2 FIXING HOLES, OR APPROVED EQUIVALENT BRAND			1	
308.	0118156	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 600 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 10 X LG 80 MM; TYPE: FAST BLOW INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: CIA20;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		BLOW HOLE IN LABEL, NORMAL INSTANTANEOUS				
309.	0118261	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 250 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 35 X LG 86 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: 200LMT; HRC			1	
310.	0117598	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 500 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 51 X LG 135 MM; TYPE: INDICATING; CASE MATERIAL: PLASTIC; REFERENCE NO: E95132; HRC, WITH BLADE CONTACTS, PIN EXTENDS FROM END OF FUSE			1	
311.	0117236	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 40 X LG 135 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TF200			1	
312.	0118852	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 600 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 46 X LG 114 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; RESISTOR LINK, CLASS AR			1	
313.	0118851	FUSE, CARTRIDGE: CURRENT: 235 A; POTENTIAL: 660-1000 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 79 X LG 104 MM; TYPE: ULTRA FAST; CASE MATERIAL: CERAMIC; CURRENT LIMITING; HIGH SPEED, HRC, WITH TRIP INDICATOR, FOR SEMICONDUCTOR RECTIFIER			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		PROTECTION, INTERNATIONAL RECTIFIER OR APPROVED EQUIVALENT				
314.	0231111	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 12 KV; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 63.5 X LG 254 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: 30 144 36; FOR AIR AND OIL INSULATED SWITCHGEAR, FITTED WITH STRIKER PIN INDICATOR			1	
315.	0117317	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 240-450 V; CONNECTION TYPE: SCREW CLAMP OFFSET TAGS; DIMENSIONS: DIA 16 X LG 41 MM; TYPE: SEMICONDUCTOR; CASE MATERIAL: CERAMIC; SUPPL P/N: GSA25			1	
316.	0117595	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 415-550 VAC; CONNECTION TYPE: SCREW CLAMP OFFSET TAGS; DIMENSIONS: DIA 22 X LG 83 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: A2-25; HRC, LIST NO 50 001 01, TYPE TIA, CLASS Q1, 80			1	
317.	0004645	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 50 MM; TYPE: SLO BLO, BOTTLE, TIME DELAY INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB281; DIAZED, TYPE TDZ, MARKING GL/GG			1	
318.	0117229	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 80			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA25; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3				
319.	0118219	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 7.2-12 KV; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 64 X LG 256 MM; TYPE: PULLCAP; CASE MATERIAL: CERAMIC; REFERENCE NO: KEBXO 25A; CURRENT LIMITING; FREE			1	
320.	0118837	FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 52 X LG 101 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: 95TJ250; HRC, TYPE J, LIST NO 50 024 01			1	
321.	0117325	FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 550 VAC; 460 VDC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 50 X LG 135 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TKF250; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
322.	0117379	FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CENTER TAGS; DIMENSIONS: ID 50 X LG 150 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TKM250; HRC, LIST NO 50 011 01, CODE Q1, 2 HOLE FIXING			1	
323.	0118363	FUSE, CARTRIDGE: CURRENT: 250 A; POTENTIAL: 600 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 35 X LG 116 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: 250MT; GSB250; HRC, FOR SEMICONDUCTOR DEVICE PROTECTION			1	
324.	0119178	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 125 VDC; CONNECTION TYPE: SOLDER; DIMENSIONS: DIA 5 X LG 12.5 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: METAL CAN; REFERENCE NO: PL278			1	
325.	0119077	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: SLO BLO, VISUAL INDICATING; CASE MATERIAL: GLASS; REFERENCE NO: HSS06247; ELECTROQUIP			1	
326.	0118303	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; SUPPL P/N: 5 X 20			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
327.	0119172	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 15 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS			1	
328.	0118858	USE, CARTRIDGE: CURRENT: 3.15 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: TIME DELAY SLO BLO, DUAL ELEMENT; CASE MATERIAL: GLASS; REFERENCE NO: 19342			1	
329.	0118287	USE, CARTRIDGE: CURRENT: 300 A; POTENTIAL: 500 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 58 X LG 150 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 3NA3250			1	
330.	0118455	FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 3-3.6 KVAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 85 X LG 358 MM; TYPE: FAST BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: DRVAL6-315S; WITH SPRING LOADED STRI			1	
331.	0117310	FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 41 X LG 159 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TKM315; REFERENCE NO: 50 011 01; DUTY 80, CLASS Q1, WITH FIXING HOLES			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
332.	0118365	FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 550-660 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 52 X LG 136 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: KFT315; B3-315; HRC, OR EQUIVALENT, 80, CODE Q1, WITH 2 FIXING HOLES			1	
333.	0669494	FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 690 V; CONNECTION TYPE: BOLT; DIMENSIONS: SQ 40 X HT 50.6 MM; INTERRUPT CAPACITY: 200 KA; TYPE: SEMICONDUCTOR PROTECTION; MANUF P/N: 6.9URD30TTF0315; REFERENCE NO: TTF			1	
334.	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			1	
335.	0118336	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 380 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: CURRENT LIMITING; CASE MATERIAL:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CERAMIC; REFERENCE NO: 133 32 32A; PULL CAP, TYP				
336.	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			1	
337.	0117584	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 415 V; CONNECTION TYPE: SLOTTED; DIMENSIONS: DIA 30 X LG 100 MM; INTERRUPT CAPACITY: 80 KA; TYPE: FAST BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: 32MJ29-4; WITH 76MM FIXING CENTERS			1	
338.	0118481	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 84 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIA32; HRCFUSE BODY LENGTH: 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A2			1	
339.	0118282	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 500 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: WD 29 X LG 80 X HT 59 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO: 3NA3812; 3NA3-812; HRC, REA NUMBER 0989-7938, WITH TRIP INDICATOR			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
340.	0119179	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 500 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 12 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT32; TAG TYPE, ONE SIDE, TWO HOLES			1	
341.	0625776	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 550 VAC; CONNECTION TYPE: BOLT IN; DIMENSIONS: DIA 13.8 X LG 84.9 MM; TYPE: AAO32 HRC GG; CASE MATERIAL: CERAMIC; SPECIFICATION: AAO32 HRC GG; SUPPL P/N: AAO32; REFERENCE NO: AAO32			1	
342.	0118163	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 22 X LG 130 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5000701- 32; B1-32; HRC, WITH SCREW CLAMP, 2 HOLES FIXING, CLASS GG/Q1, TYPE TBC, DISTANCE BETWEEN HOLES, CTC 111MM , OUTSIDE OF BODY 25MM			1	
343.	0117521	FUSE, CARTRIDGE: CURRENT: 35 A; POTENTIAL: 500 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 28 X LG 50 MM; TYPE: FAST BLOW DUAL ELEMENT TIME DELAY BOTTLE; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB311; DIAZED, FLINK			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
344.	0118223	FUSE, CARTRIDGE: CURRENT: 350 A; POTENTIAL: 130 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 25 X LG 68 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: FIBER; REFERENCE NO: A13X350			1	
345.	0118368	FUSE, CARTRIDGE: CURRENT: 350 A; POTENTIAL: 240 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 78 X LG 82 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: GS450/350A; GSA350			1	
346.	0705168	FUSE, CARTRIDGE: CURRENT: 350 A; POTENTIAL: 500 V; CONNECTION TYPE: BLADE; DIMENSIONS: DIA 38 X LG 110 MM; TYPE: AMP TRAP HIGH SPEED; CASE MATERIAL: CERAMIC; SPECIFICATION: IEC/EN60269-2; MANUF P/N: A50QS350-4; IEC STANDARD 269.1 AND 4; FOR USE ON THE HIGH FREQUENCY TRANSFORMER (HFT) SEMICONDUCTOR FUSE; SC			1	
347.	0118841	FUSE, CARTRIDGE: CURRENT: 350 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: ONE TIME REJECTION; CASE MATERIAL: GLASS; 350 AMP, FOR SOLENOID VALVES, FOR CONTROL AND INSTRUMENTATION BOILER TURBINE UNITS 1-6 AND WATER TREATMENT PLANT			1	
348.	0117690	FUSE, CARTRIDGE: CURRENT: 350-355 A; POTENTIAL: 415-550 VAC; CONNECTION			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TYPE: SCREW CLAMP; DIMENSIONS: DIA 40 X LG 110 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: JS250; TYPE J, HRC				
349.	0118456	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 60 X LG 255 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TMT355; REFERENCE NO: 5010401-355; HRC, 4 HOLE FIXING, SIBA, CLASS GG/Q1			1	
350.	0117380	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 60 X LG 206 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TM355			1	
351.	0117268	FUSE, CARTRIDGE: CURRENT: 36 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS36; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3.			1	
352.	0117216	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 13.9 X LG 50.8 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS4; FUSE, CARTRIDGE; CURRENT 4 A, POTENTIAL 240			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		VAC, DIMENSIONS DIA 13.9 X LG 50.8 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: SS4~FUSE,CARTD;SS4,4 A,240 VAC,BLADE KNIFE.				
353.	0117290	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: FSF5031-034-1522; F4A250V; VISIBLE ELEMENT.			1	
354.	0117291	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: MINIATURE; CASE MATERIAL: GLASS; SUPPL P/N: MGC; REFERENCE NO: FSF034- 1752; CURRENT LIMITING.			1	
355.	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			1	
356.	0117218	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 415 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NS4;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED				
357.	0669500	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 500 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 10 X LG 38 MM; INTERRUPT CAPACITY: 120 KA; TYPE: LOW VOLTAGE; CASE MATERIAL: CERAMIC; MANUF P/N: FR10GG50V4; REFERENCE NO: FUS 090M; CLASS GG			1	
358.	0004518	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22.5 X LG 50 MM; TYPE: BOTTLE FAST BLOW INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB121; TYPE DZ, MARKING FLINK, DIAZED			1	
359.	0118214	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: SLO BLO; CASE MATERIAL: PORCELAIN; REFERENCE NO: GL; CURRENT LIMITING			1	
360.	0118168	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS40; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
361.	0118865	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26 X LG 100 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: JH40; J; CLASS Q1			1	
362.	0118339	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 660 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: NORMAL BLOW INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO: C63211; CLASS GG			1	
363.	0117326	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 415 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 49 X LG 112 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: JP400			1	
364.	0669484	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 50 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: WD 62 X LG 72 MM; INTERRUPT CAPACITY: 120 KA; TYPE: NH3; CASE MATERIAL: CERAMIC; REFERENCE NO: 383380; FUS190; DC SYSTEMS			1	
365.	0117239	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 56 X LG 210 MM; INTERRUPT CAPACITY: 80 KA; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TM400; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
366.	0117381	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 56 X LG 133 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TMF400			1	
367.	0117403	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 600 V; REFERENCE NO: Z79855			1	
368.	0118376	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 600-660 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 80 X LG 110 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: 400MMT; HRC, OR APPROVED EQUIVALENT			1	
369.	0118864	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 660 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 60 X LG 109 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO: 660RF2B1400; 6B0DKC3URG - 32; TC-400; PROTISTOR, BRAND ONLY			1	
370.	0118439	FUSE, CARTRIDGE: CURRENT: 5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: TIME DELAY SLO BLO, DUAL ELEMENT; CASE MATERIAL: GLASS; SUPPL P/N: 19195			1	
371.	0118859	FUSE, CARTRIDGE: CURRENT: 5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TYPE: TIME DELAY SLO BLO, DUAL ELEMENT; CASE MATERIAL: GLASS; SUPPL P/N: 19342				
372.	0643578	FUSE, CARTRIDGE: CURRENT: 5 A; CASE MATERIAL: GLASS; SUPPL P/N: FUSG034M			1	
373.	0118431	FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: SINGLE ELEMENT TIME DELAY; CASE MATERIAL: GLASS; SUPPL P/N: 19195			1	
374.	0117364	FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 22 X LG 128 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TBC50; REFERENCE NO: B1; LIST NO 50 007 01, CLASS Q1			1	
375.	0117231	FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS50; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
376.	0669498	FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 690 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 14 X LG 51 MM; INTERRUPT CAPACITY: 200 KA; TYPE: HIGH			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SPEED; CASE MATERIAL: CERAMIC; MANUF P/N: 492024; REFERENCE NO: FUS 148; GR CYLINDRICAL FUSE				
377.	0118181	FUSE, CARTRIDGE: CURRENT: 500 A; POTENTIAL: 415 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 74 X LG 133 MM; TYPE: FAST BLOW; CASE MATERIAL: CERAMIC; REFERENCE NO: JS500			1	
378.	0117327	FUSE, CARTRIDGE: CURRENT: 500 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 55 X LG 130 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: JSU500; REFERENCE NO: JS500			1	
379.	0118457	FUSE, CARTRIDGE: CURRENT: 500 A; POTENTIAL: 600 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 78 X LG 108 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: GSB500			1	
380.	0669495	FUSE, CARTRIDGE: CURRENT: 500 A; POTENTIAL: 690 V; CONNECTION TYPE: M8 BOLT; DIMENSIONS: WD 51 X LG 51 X HT 50.6 MM; INTERRUPT CAPACITY: 200 KA; TYPE: SEMICONDUCTOR PROTECTION; MANUF P/N: 6.9URD31TTF0500; REFERENCE NO: FUS 185; TTF			1	
381.	0118855	FUSE, CARTRIDGE: CURRENT: 500 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: TIME DELAY SLO BLO, DUAL ELEMENT; CASE MATERIAL: GLASS; REFERENCE NO: 19343			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
382.	0004506	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 50 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: GLASS; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: SS6; REFERENCE NO: SS6; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
383.	0118441	USE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 415 VAC; 250 VDC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 36 MM; TYPE: BOTTLE INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: D01; REFERENCE NO: 5SE2006; NEOZED			1	
384.	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			1	
385.	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			1	
386.	0118254	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 50 MM; TYPE: BOTTLE FAST BLOW INDICATING; CASE			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MATERIAL: CERAMIC; REFERENCE NO: 5SA1 31; DIAZED				
387.	0118320	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 12.5 X LG 50 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO: 5SA231			1	
388.	0118322	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: INSTANTANEOUS; CASE MATERIAL: PORCELAIN; CURRENT LIMITING; 500KV MAX RATING, NORMAL OPERATING, 10MM DIA HOLE, ONE TIME, NON INDICATING			1	
389.	0117220	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT6; ONE SIDE, TWO HOLES			1	
390.	0117221	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 660 VAC; CONNECTION TYPE: SCREW CLAMP OFFSET HOLE; DIMENSIONS: DIA 22 X LG 84 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA6; 73 MM HOLE CENTRES			1	
391.	0117376	FUSE, CARTRIDGE: CURRENT: 60 A; POTENTIAL: 240 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 17 X LG 56 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: LET65; HRC, 65 AMP, FOR DIODE AND THYRISTOR			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		PROTECTION, OR APPROVED EQUIVALENT BRAND				
392.	0117303	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 415-550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 26 X LG 128 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TBC63; 2 HOLES FIXING; 128 MM LONG BETWEEN HOLES			1	
393.	0118449	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 415-660 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: 94781; PRONORM CAP END, 60AMP, WITHOUT TRIP INDICATOR			1	
394.	0118187	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 500 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: WD 27 X LG 78 X HT 53 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO: NH00GL/GG; HRC, WITH BLADE CONTACTS, PIN EXTENDS FROM END, FOR USE ON MAIN EXCITOR ROTATING DIODE			1	
395.	0119174	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 500-600 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: 294-667; RONORM CAPEND, WITH TRIP INDICATOR			1	
396.	0117212	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 550 VAC; CONNECTION TYPE: LUG AXIAL SCREW CLAMP; DIMENSIONS: DIA			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		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				
397.	0118275	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP TAG; DIMENSIONS: DIA 22.2 X LG 90.5 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: TIS63; ONE SIDE, TWO HOLES; FUSE BODY LENGTH: 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			1	
398.	0118130	FUSE, CARTRIDGE: CURRENT: 63 A; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 7 X LG 60 MM; TYPE: TRIP INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: GSL1000			1	
399.	0669485	FUSE, CARTRIDGE: CURRENT: 630 A; POTENTIAL: 500 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: WD 62 X LG 87 MM; INTERRUPT CAPACITY: 120 KA; TYPE: NH3; CASE MATERIAL: CERAMIC; REFERENCE NO: 381470; FUS11; GG TYPE WITH INDICATION			1	
400.	0669496	FUSE, CARTRIDGE: CURRENT: 630 A; POTENTIAL: 690 V; CONNECTION TYPE: M10 BOLT; DIMENSIONS: WD 60 X LG 60 X HT 50.6 MM; INTERRUPT CAPACITY: 200 KA; TYPE: SEMICONDUCTOR PROTECTION; MANUF P/N: 6.9URD32TTF0630; REFERENCE NO: FUS 186			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
401.	0118349	FUSE, CARTRIDGE: CURRENT: 75 A; POTENTIAL: 600 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 16 X LG 76 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: ET75; T; HRC, FOR DIODE THRYSTOR PROTECTION, BRUSH OR APPROVED EQUIVALENT BRAND			1	
402.	0118848	FUSE, CARTRIDGE: CURRENT: 8 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 19232			1	
403.	0118846	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 1 KV; CONNECTION TYPE: BOLTED; DIMENSIONS: DIA 34 X LG 134 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: S1981; DRAWING NO: 116/104402 ITEM 3 REV 0; FOR ROTATING RECTIFIER			1	
404.	0669508	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 500 V; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 22 X LG 58 MM; INTERRUPT CAPACITY: 120 KA; TYPE: AM CYLINDRICAL; CASE MATERIAL: CERAMIC; MANUF P/N: 442080; REFERENCE NO: FUS 143			1	
405.	0118450	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: A94668; PRONORM CAP END, WITH TRIP INDICATOR			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
406.	0117305	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 550 VAC; CONNECTION TYPE: CENTER SCREW CLAMP TAG; DIMENSIONS: DIA 28 X LG 134 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: 50-008-01; HRC, LIST NUMBER 50 008 01			1	
407.	0117233	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26.2 X LG 111 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TCP80; OFF-SET TAGS 2-HOLE FIXING; FUSE BODY LENGTH: 58 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A4			1	
408.	0119173	FUSE, CARTRIDGE: CURRENT: 800 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193			1	
409.	0118867	FUSE, CARTRIDGE: CONNECTION TYPE: CLAMP; DIMENSIONS: DIA 8 X LG 60 MM; CASE MATERIAL: CERAMIC; REFERENCE NO: 27THA, UNK; 27THB, UNK; ASSEMBLY, FOR USE ON AUTOMATIC VOLTAGE REGULATOR, MVAR MODEL ZVT, THYRISTOR CONVERTOR CUBICLE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
410.	0118266	FUSE, CARTRIDGE: CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 7.5 X LG 45 MM; TYPE: TRIP INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: GS700; REFERENCE NO: T1300; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED			1	
411.	0746909	FUSE: CURRENT: 5 A; POTENTIAL: 500 V; CONNECTION: PLUG IN; DIMENSIONS: DIA 5 X LG 20 MM; SUPPL P/N: FUSG064			1	
412.	0583377	FUSE: TYPE: HRC; CURRENT: 16 A; POTENTIAL: 550 VAC; CONNECTION: OFFSET TAG; DIMENSIONS: DIA 13.8 X LG 58.7 MM; MANUF P/N: NSD16			1	
413.	0746917	FUSE: TYPE: MINIATURE; CURRENT: 2 A; MATERIAL: CERAMIC; POTENTIAL: 500 V; CONNECTION: PLUG IN; DIMENSIONS: DIA 5 X LG 20 MM; SUPPL P/N: FUSG063			1	
414.	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			1	
415.	0118268	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 6,3X32; 6.3X32; REFERENCE NO: 19232			1	
416.	0119171	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193				
417.	0224358	FUSE, CARTRIDGE: CURRENT: 1 A; POTENTIAL: 11 KV; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 21 X LG 195 MM; TYPE: HIGH VOLTAGE; CASE MATERIAL: PORCELAIN; REFERENCE NO: RCP11			1	
418.	0118371	LIMITING, AMPERAGE 400A, VOLTAGE 550VAC, CERAMIC CARTRIDGE, CONNECTION SCREW CLAMP, SIZE 60 MM DIA X 210 MM LG, FFT: HRC, WITH CENTRAL TAGS, REF NO: C1-400, LIST NO: 50 039 01, DUTY 550 AC 80, CLASS Q1, REF : C1, WITH 4 FIXING HOLES, PART NUMBER: TM400			1	
419.	0128272	RELAY, CONTROL: MODEL NO: 4162 KEY NO.6PG11; REFERENCE NO: 22B0463-X012; 22B0463-X012 (NEW); REGULATOR PRESSURE, PILOT, FISHER			1	
420.	0706265	RELAY, CONTROL: CONTACT RATING: 220 VAC 5 A; CONTACT ARRANGEMENT: NO NC; COIL VOLTAGE: 220 VAC; ACTION: 3P; MOUNT: BOLT ON; TERMINAL: SCREW; TYPE: MOTOR PROTECTION; MANUF P/N: 323M F 220 A 1 (FGHO); DATA SHEET TO BE PROVIDED			1	
421.	0128199	RELAY, CONTROL: CONTACT RATING: 380 VAC 2.5 A; COIL VOLTAGE: 220 VAC; ACTION: 8PST; MOUNT: SURFACE PANEL; TERMINAL: 18 SCREW CLAMP; CONTACT MATERIAL: CU SILVER PLTD; ENCLOSURE RATING: PLASTIC; SUPPL P/N: 4N8-8R; SERIES 2000, ADJUSTABLE			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
422.	0128253	RELAY, CONTROL: CONTACT ARRANGEMENT: 6NO; ACTION: 6PST; MOUNT: BRACKET; TERMINAL: 14 PIN PLUG IN; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: V23154D0719B112; DS ITEM NUMBER 75ICZXX044			1	
423.	0119822	RELAY, OVERLOAD: TRIP RANGE: 0.32 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 3NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: BRACKET; CONTACT MATERIAL: SILVER PLTD; CIRCUIT BREAKER, TRIPLE POLE, 2.5-4AMPS, IC 6.3AMP, 300VAC, AUXILLIARY 3AMP, ENCLOSURE GENERAL PURPOSE			1	
424.	0128264	RELAY, OVERLOAD: TRIP RANGE: 0.38-0.62 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: OPEN; REFERENCE NO: CTA3-12-0.62A; CTA3-12; WITH SOCKET FOR SEPERATE MOUNTING; UNIVERSAL CONTACT			1	
425.	0128265	RELAY, OVERLOAD: TRIP RANGE: 0.63-1 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: T25DU; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	
426.	0141508	RELAY, OVERLOAD: TRIP RANGE: 1-1.6 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: BRACKET;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		REFERENCE NO: 3VU1300-1MG00; MOTOR PROTECTION CIRCUIT BREAKER, 380V				
427.	0128281	RELAY, OVERLOAD: TRIP RANGE: 1-1.6 A; TYPE: THERMAL; REFERENCE NO: CTA3-12; UNIVERSAL CONTACT			1	
428.	0126368	RELAY, OVERLOAD: TRIP RANGE: 1-4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-4A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	
429.	0128282	RELAY, OVERLOAD: TRIP RANGE: 1-5 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; CURRENT: 1-5; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; APPLICATION: MOTOR; OPERATING TEMP RANGE: 60-70 DEG C; SUPPL P/N: 193-ED1CB; UNIVERSAL CONTACT, RANGE 1,6 AMP TO 2,5 AMP			1	
430.	0120050	RELAY, OVERLOAD: TRIP RANGE: 1.6-2.4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: BRACKET; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 3VU-1300-1MH00 (NEW); 3VU-1300-1MH00; 3VE1030-2H (OLD); MOTOR PROTECTION CIRCUIT BREAKER, ENCLOSURE GENERAL PURPOSE			1	
431.	0123340	RELAY, OVERLOAD: TRIP RANGE: 1.6-2.5 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL:			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CAPTIVE CLAMP; PANEL; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: M611; MOTOR STARTER, ENCLOSURE GENERAL PURPOSE				
432.	0128074	RELAY, OVERLOAD: TRIP RANGE: 1.9-2.8 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; UNIVERSAL CONTCT, 600V MAXIMUM 3 PHASE 25 TO 60 HZ TYPE			1	
433.	0128291	RELAY, OVERLOAD: TRIP RANGE: 10-14 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: 12 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD			1	
434.	0736870	RELAY, OVERLOAD: TRIP RANGE: 10-16 A; TYPE: OVERLOAD; CONTACT ARRANGEMENT: 1 NO 1 NC; RESET: PUSHBUTTON MANUAL/AUTO; CURRENT: 16 A; TERMINAL: 3; MOUNT: DIRECT ATTACHMENT; ENCLOSURE RATING: IP20; OPERATING TEMP RANGE: -25 to 55 DEG C; SPECIFICATION: IEC/EN 60947-4-1; SUPPL P/N: ZB32-16; REFERENCE NO: 278452			1	
435.	0141509	RELAY, OVERLOAD: TRIP RANGE: 10-16 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: BRACKET; CONTACT: 3 PHASE; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: C74103 A2600 D14; 3VE3000 2MA00; CIRCUIT BREAKER;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MOTOR PROTECTION; ENCLOSURE GENERAL PURPOSE				
436.	0126373	RELAY, OVERLOAD: TRIP RANGE: 110-360 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N360-360A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	
437.	0128336	RELAY, OVERLOAD: TRIP RANGE: 14-20 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: RMETL38-20			1	
438.	0128266	RELAY, OVERLOAD: TRIP RANGE: 14-25 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: OPEN; SUPPL P/N: TA25DU; UNIVERSAL CONTACT			1	
439.	0126371	RELAY, OVERLOAD: TRIP RANGE: 15-60 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-60A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	
440.	0126369	RELAY, OVERLOAD: TRIP RANGE: 2-8 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-8A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
441.	0128139	RELAY, OVERLOAD: TRIP RANGE: 2.4-4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: OPEN; APPLICATION: LANCE SOOTBLOWER; REFERENCE NO: TSA- 45P			1	
442.	0123344	RELAY, OVERLOAD: TRIP RANGE: 2.5-4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: GHM6113304VO; MOTOR STARTER, ENCLOSURE GENERAL PURPOSE			1	
443.	0126662	RELAY, OVERLOAD: TRIP RANGE: 2.5-4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: 193EA1EB; ENCLOSURE GENERAL PURPOSE			1	
444.	0128293	RELAY, OVERLOAD: TRIP RANGE: 24-32 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 4NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; SUPPL P/N: GJZ242=0201-R0053; REFERENCE NO: T25DM32; RANGE 26-32AMPS; UNIVERSAL CONTACT			1	
445.	0128309	RELAY, OVERLOAD: CONTACT ARRANGEMENT: 2NO 2NC; RESET: MANUAL; TERMINAL: SCREW CLAMP; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; DRAWING NO:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		052.41-5 REV 1; REFERENCE NO: 74RDX; VAA13AF2406AB; INPUT 48VDC, FLAG INDICATION				
446.	0128271	RELAY, OVERLOAD: TRIP RANGE: 3.4-5 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; CURRENT: 3.4-5 A; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: OPEN; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: B27T; B27			1	
447.	0141510	RELAY, OVERLOAD: TRIP RANGE: 4-6 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: 3VE1030-2K; MOTOR PROTECTION, INPUT 600VOLT, ENCLOSURE GENERAL PURPOSE			1	
448.	0128141	RELAY, OVERLOAD: TRIP RANGE: 4-6.3 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: OPEN; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 3UA50-00-1G			1	
449.	0128290	RELAY, OVERLOAD: TRIP RANGE: 4-6.5 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: 12 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: RVZP-D, UNK; SK4220051, UNK; SIZE 20; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		DRAWING REVISION NUMBER (IF APPLICABLE).				
450.	0126372	RELAY, OVERLOAD: TRIP RANGE: 40-150 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N150-150A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	
451.	0126370	RELAY, OVERLOAD: TRIP RANGE: 5-20 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-20A-AC200V; GENERAL PURPOSE ENCLOSURE; UNIVERSAL CONTACT			1	
452.	0128283	RELAY, OVERLOAD: TRIP RANGE: 54-80 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: TH-K120(KP); ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	
453.	0736895	RELAY, OVERLOAD: TRIP RANGE: 65-57 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1 NO 1 NC; RESET: PUSHBUTTON MANUAL/AUTO; CURRENT: 57 A; TERMINAL: 3 SCREW; MOUNT: DIRECT ATTACHMENT; ENCLOSURE RATING: IP00; OPERATING TEMP RANGE: -25 to 55 DEG C; SPECIFICATION: IEC/EN 60947-4-1; SUPPL P/N: ZB65-57; REFERENCE NO: 278459			1	
454.	0703277				1	
455.	0125496	RELAY, OVERLOAD: TRIP RANGE: 7-10 A; TYPE: THERMAL; CONTACT ARRANGEMENT:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: LR1D09-314				
456.	0736872	RELAY, OVERLOAD: TRIP RANGE: 70-100 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1 NO 1 NC; RESET: PUSHBUTTON MANUAL/AUTO; CURRENT: 100 A; TERMINAL: 3 SCREW; MOUNT: DIRECT; ENCLOSURE RATING: IP00; OPERATING TEMP RANGE: -25 to 55 DEG C; SPECIFICATION: IEC/EN 60947-4-1; SUPPL P/N: ZB150-100; REFERENCE NO: 278470			1	
457.	0128298	RELAY, OVERLOAD: TRIP RANGE: 8-12 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: 25400; E910-341-936-00; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			1	
458.	0128186	RELAY, OVERLOAD: TRIP RANGE: 80-120 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: OPEN; REFERENCE NO: RMETL32420			1	
459.	0128197	RELAY, OVERLOAD: TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: OPEN; REFERENCE NO: 01-156-0; UOL1-3; UNIVERSAL CONTACT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
460.	0128161	RELAY, OVERLOAD: TYPE: THERMAL; CONTACT ARRANGEMENT: 2NO 2NC; RESET: AUTOMATIC; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: 0014838; AA9943-12-001; UNDERVOLTAGE, 380VAC			1	
461.	0126658	RELAY, PNEUMATIC: TYPE: HIGH SELECTOR; SUPPLY PRESSURE: 20-100 KPA; REFERENCE NO: 3702; 1/4INCH PORTS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
462.	0178651	RELAY, SOLID STATE: INPUT 50VDC			1	
463.	0589103	RELAY, SOLID STATE: TYPE: INPUT SENSOR; COIL VOLTAGE: 24 VDC; CONTACT RATING: 100-240 VAC; POTENTIAL: 100-240 VAC; CURRENT: 2 A; CONTACT ARRANGEMENT: 1NO; ACTION: SPST; MOUNT: BASE; REFERENCE NO: 700-SK0Z2Z25; STORAGE AMBIENT TEMPERATURE -30 TO 100 DEG C; TEST CERTIFICATES TO BE SUPPLIED			1	
464.	0128194	RELAY, SOLID STATE: TYPE: SPEED; POTENTIAL: 110-220 VDC; SUPPL P/N: ES76S4 BR 6811476; 1725 RPM; CONTROL: 862 MIN-1; GENERATOR: 66.20.16.4.81; DEUTA WERKE BRAND; COUNTAPULE CONTROLS			1	
465.	0128193	RELAY, SOLID STATE: TYPE: SYNCHRONIZE CHECK; CONTACT RATING: 63.5 VAC; 220 VDC; REFERENCE NO: TC3-406A-8064; CASE SIZE 1D			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
466.	0235303	RELAY, SOLID STATE: TYPE: SYNCHRONIZE CHECK; POTENTIAL: 63.51 VAC; 50 VDC; SUPPL P/N: 406A 8063 8; REFERENCE NO: A17580/1; TC32; 50HZ; FOR USE ON DIESEL GENERATOR			1	
467.	0128168	RELAY, SOLID STATE: TYPE: TRIP; REFERENCE NO: VAJX 12SP2287 HA; 034959N			1	
468.	0128338	RELAY, SOLID STATE: TYPE: TRIP; REFERENCE NO: VAJX12SF2287DA			1	
469.	0151565	RELAY, TIME DELAY: OPERATION: 0-12 MIN; ACTION: SPDT; COIL VOLTAGE: 220 VAC; TERMINAL: 8 PIN; MEDIUM: MOTOR; MODEL NO: H2C 8 SC AC220; LIMIT OPERATION/SELF RESETTING, ROUND SOCKET, COLOUR OF FRONT PANEL - RED			1	
470.	0015708	DELAY: OPERATION: 0-15 MIN; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; CONTACT RATING: 10-30 V AC/DC; COIL VOLTAGE: 24 VDC; TERMINAL: 11 PIN; MOUNT: BASE; MEDIUM: ELECTRONIC; REFERENCE NO: ST101/30 VDC-DP; SLIMLINE; MULTI FUNCTION; CONTINUOUS CYCLE			1	
471.	0151545	RELAY, TIME DELAY: OPERATION: 0-30 MIN; COIL VOLTAGE: 220 VAC; TERMINAL: 8 PIN; REFERENCE NO: STP NM2-US; INTERVAL; TYPE CONTINUOUS CYCLE			1	
472.	0128316	RELAY, TIME DELAY: OPERATION: 0-5 S; CONTACT ARRANGEMENT: 1NO 3NC; ACTION: SPDT; COIL VOLTAGE: 220 VAC; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		RATING: PLASTIC; SUPPL P/N: MZU-131; 50HZ, GROUP STOCK				
473.	0221083	RELAY, TIME DELAY: OPERATION: 0-60 S; CONTACT RATING: 400 VAC; TERMINAL: 11; STAR/DELTA			1	
474.	0128162	RELAY, TIME DELAY: OPERATION: 0.05-1 S; COIL VOLTAGE: 220 VAC; REFERENCE NO: AI985-7100; 1PH 60HZ; TYPE CONTINUOUS CYCLE, TERMINATED WITH PHILIPS SCREWS ON FRONT OF TIMER, INDEFINATE CLEAN AND DRY			1	
475.	0151328	RELAY, TIME DELAY: OPERATION: 0.15-120 S; ACTION: DPDT; COIL VOLTAGE: 250 VAC; TERMINAL: 11 PIN; REFERENCE NO: ST 100; TYPE MULTI-FUNCTION, SLIMLINE TIMER, 90 TO 240 VOLTS CA, MULTI FUNCTION			1	
476.	0128214	RELAY, TIME DELAY: OPERATION: 0.3-3 S; COIL VOLTAGE: 48 VDC; SUPPL P/N: VDE 0435; REFERENCE NO: TZA1S; 3VA, ZENER PROTECTED; FOR HP/LP BYPASS AND R/H SAFETY EQUIPMENT; TYPE CONTINUOUS CYCLE			1	
477.	0151543	RELAY, TIME DELAY: OPERATION: 1-20 MIN; ACTION: DPDT; COIL VOLTAGE: 220 VAC; TERMINAL: 11 PIN; REFERENCE NO: DT310/2; TYPE CONTINUOUS CYCLE			1	
478.	0151542	RELAY, TIME DELAY: OPERATION: 1-20 S; ACTION: DPDT; COIL VOLTAGE: 220 VDC; TERMINAL: 11; SUPPL P/N: DT310-1; TYPE CONTINUOUS CYCLE			1	
479.	0128317	RELAY, TIME DELAY: OPERATION: 1-5 S; CONTACT ARRANGEMENT: 2NO 2NC;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		ACTION: SPDT; COIL VOLTAGE: 220 VAC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; MODEL NO: DR36U1750D; REFERENCE NO: PR5KAHY; AK13023; 220VAC, FOR USE ON 22KILOVOLT GENERATOR CIRCUIT BREAKER				
480.	0151547	RELAY, TIME DELAY: OPERATION: 1.8-120 S; ACTION: DPDT; COIL VOLTAGE: 24 VDC; TERMINAL: 11 PIN; REFERENCE NO: ST 100; TYPE CONTINUOUS CYCLE, SLIMLINE MULTI FUNCTION, RANGE 1,5 TO 240 SECONDS 10 TO 30 VOLT AC/DC			1	
481.	0151549	RELAY, TIME DELAY: OPERATION: 10-20 S; ACTION: DPDT; COIL VOLTAGE: 24 VDC; REFERENCE NO: ST101; ST101 10-30V AC/DC; TYPE MULTI-FUNCTION, MULTI FUNCTION, 10-220SEC			1	
482.	0151544	RELAY, TIME DELAY: OPERATION: 10-200 S; ACTION: DPDT; COIL VOLTAGE: 24 VDC; TERMINAL: 11 PIN; REFERENCE NO: DTS310/1; TYPE CONTINUOUS CYCLE, 1 X TIMING CONTACT AND 1 X INSTANTANEOUS CONTACT, 200 VOLT DC, INDEFINATE CLEAN AND DRY			1	
483.	0128327	RELAY, TIME DELAY: CONTACT ARRANGEMENT: 1NO 3NC; ACTION: SPDT; CONTACT RATING: 220 VAC; COIL VOLTAGE: 220 VAC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		PLASTIC CLEAR; REFERENCE NO: PA5KAHY; AK513031; 50 HZ, GROUP STOCK				
484.	0151539	RELAY, TIME DELAY: OPERATION: 65-90 S; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; COIL VOLTAGE: 63.4/110 VAC; TERMINAL: 18 PIN PLUG IN; MOUNT: TERMINAL SOCKET; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: RH433-001-AA; RXOTD4			1	
485.	0151562	RELAY, TIME DELAY: OPERATION: OFF 1.8-120 S; ACTION: DPDT; COIL VOLTAGE: 220 VAC; MEDIUM: ELECTRONIC; REFERENCE NO: ST-300; 1PH, NO POWER OFF, SLIMLINE RANGE			1	
486.	0125749	RELAY, TIME DELAY: OPERATION: ON 0-10 S; CONTACT ARRANGEMENT: 1NO 4NC; COIL VOLTAGE: 220 VAC; REFERENCE NO: PD02, UNK; PD02/DUVHA, UNK; RESET, OUTPUT 2X CO CONTACTS, NO 1 AND 3 NO, NO 6 AND 5 NC, NO 6 AND 7 NO, NO 2 AND 10, 1PH 60HZ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
487.	0128213	DELAY: OPERATION: ON 0-12 S; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: 11 PIN; CONTACT RATING: 220 VAC; COIL VOLTAGE: 220 VAC; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC; SUPPL P/N: ST30B; 1X NO			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		INSTANTANEOUS CONTACT AND 1 X NC WITH 12 SEC DELAY AFTER DE-ENERGISING				
488.	0151563	RELAY, TIME DELAY: OPERATION: ON 0-180 S; CONTACT RATING: 220 VAC; TERMINAL: 8 PIN; SOLID STATE			1	
489.	0151558	RELAY, TIME DELAY: OPERATION: ON 0-60 MIN; ACTION: (2) SPDT; COIL VOLTAGE: 220 VAC; REFERENCE NO: VS LP105; WITH ONE DELAY CONTACT AND ONE INSTANTANEOUS CONTACT; 1PH 50HZ			1	
490.	0128329	RELAY, TIME DELAY: OPERATION: ON 0.1-0.3 S; CONTACT ARRANGEMENT: 1NO 3NC; ACTION: SPDT; COIL VOLTAGE: 220 VDC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; SUPPL P/N: D2; MODEL NO: DR36U1750D; REFERENCE NO: AK13024; PA1/IAY; FOR USE ON 22KILOVOLT GENERATOR CIRCUIT BREAKER			1	
491.	0128332	RELAY, TIME DELAY: OPERATION: ON 0.1-0.3 S; CONTACT ARRANGEMENT: 3NO 1NC; ACTION: SPDT; CONTACT RATING: 220 V; COIL VOLTAGE: 220 VDC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: AK513031; D5 PR5NKAHY; HESG442183F112; 22 KV CIRCUIT BREAKER			1	
492.	0128330	RELAY, TIME DELAY: OPERATION: ON 0.1-0.5 S; CONTACT ARRANGEMENT: 1NO 3NC; ACTION: SPDT; COIL VOLTAGE: 220 VDC; TERMINAL: CAPTIVE SCREW QUICK			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; 22VDC, 50HZ				
493.	0128331	RELAY, TIME DELAY: OPERATION: ON 0.1-0.5 S; CONTACT ARRANGEMENT: 3NO 1NC; ACTION: SPDT; COIL VOLTAGE: 220 VDC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: PAINKAHY; HATH407873R0014			1	
494.	0128315	RELAY, TIME DELAY: OPERATION: ON 0.25-1 S; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: SPDT; COIL VOLTAGE: 220 VAC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; SUPPL P/N: DR36U1750D; REFERENCE NO: HESG442 183 F222 F222(DR36U1750D); 50HZ			1	
495.	0151554	RELAY, TIME DELAY: OPERATION: ON 0.8-18 S; COIL VOLTAGE: 220 VAC; REFERENCE NO: SA 105; 1PH 50HZ			1	
496.	0151548	RELAY, TIME DELAY: OPERATION: ON 1.8-120 S; ACTION: SPDT; COIL VOLTAGE: 24 VDC; TERMINAL: 11 PIN; REFERENCE NO: DT310/1; TYPE MULTI-FUNCTION, RANGE 10 TO 200 SECONDES			1	
497.	0151550	RELAY, TIME DELAY: OPERATION: ON 10-200 S; COIL VOLTAGE: 24 VDC; REFERENCE NO: DT310/1/; ENERGIS, RANGE 20-200 MINUTES			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
498.	0151551	RELAY, TIME DELAY: OPERATION: ON 220 S TO 240 MIN; ACTION: SPDT; COIL VOLTAGE: 24 VDC; TERMINAL: 11 PIN; REFERENCE NO: DT310/1; ENERGY, RANGE 100 TO 200, INUTES, INDEFINATE CLEAN AND DRY, ENERGISE			1	
499.	0151480	RELAY, TIME DELAY: OPERATION: ON 3-60 MIN; OFF 0.5-10 HR; COIL VOLTAGE: 220 VAC; REFERENCE NO: SC185; S SYSTEM			1	
500.	0151557	RELAY, TIME DELAY: OPERATION: ON 3-60 S; COIL VOLTAGE: 24 VAC; REFERENCE NO: SA105-024; TYPE RESET			1	
501.	0128333	RELAY, TIME DELAY: OPERATION: ON 6-60 S; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: DPDT; CONTACT RATING: 220 VDC; COIL VOLTAGE: 220 VDC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR			1	
502.	0151571	RELAY, TIME DELAY: OPERATION: ON; COIL VOLTAGE: 220 VDC; SUPPL P/N: HO10E CLASS 9050; TYPE RESET, 1PH			1	
503.	0128305	RELAY: COIL VOLTAGE: 110 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT; TERMINAL: 15 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; AVR			1	
504.	0128304	RELAY: COIL VOLTAGE: 125 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: SPDT; TERMINAL: 15 PIN CLIP IN; MOUNT: BASE; ENCLOSURE RATING: PLASTIC; CONTACT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MATERIAL: SILVER PLTD; MODEL NO: ZVT; REFERENCE NO: 80Q; MVAR				
505.	0246507	RELAY: COIL VOLTAGE: 24 V; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 240 VAC; MOUNT: PLUG IN; SUPPL P/N: 4060120000; REFERENCE NO: RSS113024			1	
506.	0150670	RELAY: COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 4NC; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; MODEL NO: ZVT; REFERENCE NO: 1P1061781-001; FOR USE ON AUTOMATIC VOLTAGE REGULATOR, MVAR			1	
507.	0128261	RELAY: COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT; TERMINAL: 15 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: 650.22V.5100; RL1; 650.20V.4400; 650.22V.6500; ZVT; REFERENCE NO: RL1/RL2; 40A/40B/95C/95D/40T,76; ON EXCITATION CURRENT PANEL, ON COMPARATOR, ON MVAR LIMIT PANEL, FOR USE ON AUTOMATIC VOLTAGE REGULATOR			1	
508.	0128263	RELAY: COIL VOLTAGE: 24 VDC; TERMINAL: 6 PIN SOLDER; MOUNT: PCB; SUPPL P/N: R1400; MODEL NO: ZVT; REFERENCE NO: LE2-2LA-G3; REED, MVAR, 15VDC			1	
509.	0128302	RELAY: COIL VOLTAGE: 27 VDC; CONTACT ARRANGEMENT: 5NO 2NC; ACTION: 5PDT;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TERMINAL: 15 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; MODEL NO: ZVT; REFERENCE NO: 41X; FOR AUTOMATIC VOLTAGE REGULATOR, MVAR, REGULATOR CUBICLE				
510.	0128259	RELAY: COIL VOLTAGE: 50 VDC; CONTACT ARRANGEMENT: 4NO 2NC; ACTION: SPDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; MODEL NO: ZVT; REFERENCE NO: 41Y; COMPLETE WITH COIL, FOR USE ON AUTOMATIC VOLTAGE REGULATOR, MVAR, THYRISTOR CONVERTOR CUBICLE			1	
511.	0128308	RELAY: COIL VOLTAGE: 50 VDC; CONTACT ARRANGEMENT: 4NO 3NC; ACTION: SPST; TERMINAL: CLAMP SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: 002555H; MODEL NO: ZVT; REFERENCE NO: 86VA-86VB; BDZ075.5-9; AUTOMATIC, MVAR, REGULATOR CUBICLE			1	
512.	0128307	RELAY: COIL VOLTAGE: 50 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: SPST; TERMINAL: CLAMP SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; DRAWING NO: BDZ075.6-9 REV 1; MODEL NO: MVAR ZVT; REFERENCE NO: 43; FOR AUTOMATIC, REGULATOR CUBICLE			1	
513.	0128300	RELAY: COIL VOLTAGE: 50-58 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT;			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TERMINAL: 15 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: 650.22V.6600; MODEL NO: ZVT; REFERENCE NO: 43X; 2400 OHM RESISTANCE, FOR USE ON AUTOMATIC VOLTAGE REGULATOR, MVAR, REGULATOR PANEL				
514.	0128306	RELAY: COIL VOLTAGE: 58 VDC; CONTACT ARRANGEMENT: 3NO 3NC; ACTION: SPDT; TERMINAL: 15 PIN CLIP IN; MOUNT: BASE; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; MODEL NO: ZVT; REFERENCE NO: AK-AE-AH; GPR103-24K-4C-GS; MVAR, REGULATOR CUBICLE			1	
515.	0128301	RELAY: COIL VOLTAGE: 58 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: DPDT; TERMINAL: 15 PIN CLIP IN; MOUNT: BASE; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: GPR101/2,K4/4C/GS; FOR GEC TURBINE GENERATOR 600MW LIMIT PANEL			1	
516.	0185554				1	
517.	0612798	RELAY: TYPE: AUXILIARY I/P; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 8 A; ACTION: SPDT; TERMINAL: SCREW; MOUNT: FLUSH SOCKET; ENCLOSURE RATING: IP40; MANUF P/N: 7TS1642-0AA00-1; 7XP9010-2			1	
518.	0128234	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 110 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		RATING: 1 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VPAC2CAB110; SOLDER, WITH 8BA EARTH SCREW				
519.	0128236	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 110 VAC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 5 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VPAC4-5ACAB110; SOLDER, WITH 8BA EARTH SCREW			1	
520.	0128134	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 110 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: MK2P-AC 110; CLOSED TYPE			1	
521.	0128313	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 12 V; CONTACT ARRANGEMENT: 1NO; ACTION: SPDT; TERMINAL: CAPTIVE SCREW; MOUNT: BRACKET; REFERENCE NO: 16195112; 16195112-00; FOR A ATLAS COPCO DIESEL COMPRESSOR DRIVEN BY A CUMMINGS DIESEL ENGINE			1	
522.	0128241	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 12 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		RATING: 1 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VP4CAB12M; FOR ELECTRIC HYDRAULIC GOVERNOR CONTROL, 110 OHMS, DOUBLE CONTACTS ONLY				
523.	0128165	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 12 VDC; CONTACT ARRANGEMENT: 6NO 6NC; CONTACT RATING: 20 MA; ACTION: 6PDT; TERMINAL: 26 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 10627L; COMPLETE WITH DUST COVER			1	
524.	0128277	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 12 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 250 VAC 10 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: MK2P; COVERED			1	
525.	0128230	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 17 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP2CAB17M; M; WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
526.	0128242	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 17 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 1 A; ACTION: 4PDT; TERMINAL: 16 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: VP4CAB17M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW, 220 OHMS, DOUBLE CONTACTS ONLY			1	
527.	0128252	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 17 VDC; CONTACT ARRANGEMENT: 6NO; CONTACT RATING: 1 A; ACTION: 6PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6MAB17M; M TYPE WITH 1N4148 DIODE BETWEEN TERMINALS, SOLDER, WITH 8BA EARTH SCREW, 220 OHMS, DOUBLE CONTACTS ONLY			1	
528.	0128286	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 5 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 014-6-001; RAPA			1	
529.	0128235	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VPAC2CAB220; SOLDER, WITH 8BA EARTH SCREW				
530.	0128278	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 220 VAC 5 A; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK3P-5/I; 50 HZ			1	
531.	0128211	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 110 VAC 10 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: LY4-AC220; STANDARD MOUNTING			1	
532.	0128190	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 380 VAC 10 A; ACTION: 8PDT; TERMINAL: CAPTIVE CLAMP; MOUNT: BRACKET; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: DIL08-53; DIL08-530; 220 VDC, D/GENER			1	
533.	0128140	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 0.005 A; ACTION: DPDT; TERMINAL:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23005; V23005-B00004- F104				
534.	0128219	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 9 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: A0133A004; A0133A004SM; PLUG IN			1	
535.	0128538	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK2P-AC220; CLOSED TYPE			1	
536.	0128273	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 250 VDC 10 A 1.5 KVA; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: RL211220; 6012			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
537.	0128169	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: SPDT; TERMINAL: BOLT; MOUNT: PANEL; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VAA11YF4013AK; ENCLOSURE GENERAL PURPOSE			1	
538.	0125492	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220-240 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 120/250/400 VAC 6/3/1.5 A; ACTION: DPDT; TERMINAL: SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; SPECIFICATION: IEC 34-11-1A; SUPPL P/N: 3RN1010-1CM00; THERMISTER, O/A DIMS 100 MM LG X 76 MM HT X 45 MM WIDE, RATED VOLTAGE 4 AMP, 250 VDC 0.2 AMP, ORDER NO 4NEB 219 0416-10, CONTACT UNIVERSAL			1	
539.	0128335	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 235 VAC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: D2597-15MY310; 226-250VDC			1	
540.	0125593	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VAC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 220 V 10 A; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: MK3P-5; RELAY; TYPE AUXILIARY OVERCURRENT, CONTACT RATING 220 V 10 A, CONTACT ARRANGEMENT 3NO 3NC, CONTACT MATERIAL AG PLTD, ACTION 3PDT, COIL VOLTAGE 24 VAC, TERMINAL 11 PIN PLUG IN, MOUNT OCTAL SOCKET, ENCLOSURE RATING PLASTIC CLEAR, REFERENCE NO: MK3P-5 RELAY; MK3P-5, AUXILIARY OVERCURRENT				
541.	0128239	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 10 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VPR2CAB24W24; BISTABLE POLARISED; COIL DOUBLE WOUND; 24 V INNER AND OUTER WINDINGS; SOLDER WITH 8BA EARTH SCREW; 400 OHMS; DOUBLE CONTACTS			1	
542.	0126540	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 250 VAC 10 A; ACTION: SPDT; TERMINAL: CAPTIVE SCREW; MOUNT: BRACKET; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: EMG10RELKSRG24-1; INTERPOSING, COMPLETE WITH BASE, SIEMENS ONLY			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
543.	0128312	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO; ACTION: SPDT; TERMINAL: 4 BOLT; MOUNT: BRACKET; ENCLOSURE RATING: METAL CAN; REFERENCE NO: 16191891; FOR USE ON LP SERVICES DIESEL COMPRESSOR			1	
544.	0128210	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 220 VDC 5 A; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: MK3P-5; THREE POLE DOUBLE THROW			1	
545.	0128212	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 110 VAC 10 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: LY4-DC 24			1	
546.	0128223	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT; TERMINAL: 16 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 612067-24-24; PLUG IN, SM			1	
547.	0128240	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		ARRANGEMENT: 6NO; CONTACT RATING: 1 A; ACTION: 6PDT; TERMINAL: PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VPR6MAB24W24; BISTABLE POLARISED, COIL DOUBLE WOUND 24 VOLT INNER/OUTER WINDINGS, SOLDER, WITH 8BA EARTH SCREW, 400 OHMS, DOUBLE CONTACTS ONLY				
548.	0128171	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 240 VAC 10 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: LY2			1	
549.	0128218	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 9 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23012A0105A004; PLUG IN, SM			1	
550.	0128276	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SUPPL P/N: MK2P- DC 24; SOLDER TERMINALS, CLOSED TYPE				
551.	0128227	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 5 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: A2R6P7; PLUG IN, SM			1	
552.	0008221	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 240 VAC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 250 VAC 3 A; 125 VDC 3 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: SOCKET; ENCLOSURE RATING: IP20; CONTACT MATERIAL: AU CLADDING / AG ALLOY; SPECIFICATION: ISO 9001; SUPPL P/N: MY4-220/240VAC			1	
553.	0128267	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 240 VAC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 240 VAC 25 A; ACTION: DPDT; TERMINAL: 10 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: MP1PDPST; POWER, CONTACT UNIVERSAL			1	
554.	0128231	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 26 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		REFERENCE NO: VP2CAB26M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW				
555.	0128243	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 26 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 1 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP4CAB26M; M TYPE WITH 1N4148 BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EATH SCREW, PACKED IN BLACK PLASTIC BAG, 530 OHMS, DOUBLE CONTACTS ONLY			1	
556.	0128247	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 26 VDC; CONTACT ARRANGEMENT: 6NO; CONTACT RATING: 1 A; ACTION: 6PST; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6MAB26M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER WITH 8BA EARTH, SCREW, 530 OHMS, DOUBLE CONTACTS ONLY			1	
557.	0128167	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23154-D0720-F104			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
558.	0128195	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 9 PIN SOLDER; MOUNT: BRACKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: 07-104-60701; BLR FEEDER			1	
559.	0128203	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23154-C0721-B104; FOR TURBOVISORY			1	
560.	0128217	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 9 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23012A0105A001; PCB			1	
561.	0128220	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 9 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23012A2105B001			1	
562.	0128222	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 10 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: METAL CAN; REFERENCE NO: V23162G0721			1	
563.	0128228	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		ACTION: DPDT; TERMINAL: 8 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 10056; V23037-A0002-A101; WATER PLANT				
564.	0128254	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 0.005 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: V23005-B0004-F104; TURB, CONTACT UNIVERSAL			1	
565.	0128244	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 34 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 1 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP4CAB34M; FOUR BASIC POLE CHANGE OVER, M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, 8BA EARTH SCREW, 890 OHMS, DOUBLE CONTACTS ONLY			1	
566.	0128248	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 34 VDC; CONTACT ARRANGEMENT: 6NO 6NC; CONTACT RATING: 1 A; ACTION: 6PDT; TERMINAL: 26 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6CAB34M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS,			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SOLDER, WITH 8BA EARTH SCREW, 890 OHMS, DOUBLE CONTACTS ONLY				
567.	0128258	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 34 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP2CAB34M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER WITH 8BA EARTH SCREW, 890 OHMS, DOUBLE CONTACTS ONLY			1	
568.	0128246	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 34 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VP45ACAB34M 890; TURBINE			1	
569.	0128237	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 34 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP2HDCAB34M; HEAVY DUTY, M TYPE WITH DIODE 1N4148 BETWEEN COIL TERMINALS, WITH 8BA EARTH SCREW			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
570.	0128249	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 34 VDC; CONTACT ARRANGEMENT: 6NO; CONTACT RATING: 1 A; ACTION: 6PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6MAB34M; WITH DIODE 1N4148 BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EATH SCREW, CLEAN AND DRY			1	
571.	0128232	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP2CAB47M; BASIC ITWO POLE CHANGE OVER, M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER WITH 8BA EARTH SCREW, 1700 OHMS, DOUBLE CONTACTS ONLY			1	
572.	0128245	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 1 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP4CAB47M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW, 1700 OHMS, DOUBLE CONTACTS ONLY			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
573.	0128250	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 6NO 6NC; CONTACT RATING: 1 A; ACTION: 6PDT; TERMINAL: 20 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6CAB47M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW, 1700 OHMS, DOUBLE CONTACTS ONLY			1	
574.	0128257	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 9 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VP2DMCAB47M; M TYPE WITH DIODE 1N4148 BETWEEN COIL TERMINALS, 2.54 MM, 0.10 INCH, GRID NICKEL/PIN PLATED WITH 8BA EARTH SCREW, VARLEY ONLY			1	
575.	0128238	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP2HDCAB47M; M TYPE WITH DIODE 1N4148 BETWEEN COIL TERMINAL, WITH 8BA EARTH SCREW			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
576.	0128256	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 5 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP4-5ACAB47M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BS EARTH SCREW			1	
577.	0128251	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 6NO; CONTACT RATING: 1 A; ACTION: SPDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6MAB47M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW, 1700 OHMS, DOUBLE CONTACTS ONLY			1	
578.	0125587	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 48 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: MK2P- DC48			1	
579.	0128221	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT; TERMINAL: 13 PIN SOLDER;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: V23030A1026A104; CONTACT UNIVERSAL				
580.	0125239	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 50 VDC; CONTACT ARRANGEMENT: 4NO 4NC; ACTION: 4PDT; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 4N8-8R			1	
581.	0128229	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 6 VDC; TERMINAL: PIN SOLDER; MOUNT: PCB; REFERENCE NO: NR-HD-6V; FOR METAP SYSTEM			1	
582.	0128233	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 65 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP2CAB65M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EATH SCREW, 3200 OHMS, DOUBLE CONTACTS ONLY			1	
583.	0128127	RELAY: TYPE: AUXILIARY OVERCURRENT; CONTACT ARRANGEMENT: 6NO; ACTION: 6PST; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; SUPPL P/N: C70301-A532-C103; MEASURING, FOR USE WITH SIEMENS RECORDER, CONTACT UNIVERSAL			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
584.	0128205	RELAY: TYPE: AUXILIARY OVERCURRENT; TERMINAL: 8 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: METAL CAN; CONTACT MATERIAL: HG WETTED; REFERENCE NO: 68A8187P003; FOR HONEYWELL COMPUTER			1	
585.	0128255	RELAY: TYPE: AUXILIARY OVERCURRENT; TERMINAL: 16 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: METAL CAN; REFERENCE NO: V23162-G0721- C104 ANLZR; V23162-G0721-C104; CONTACT UNIVERSAL			1	
586.	0612799	RELAY: TYPE: AUXILIARY TRIPPING; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 8NO 8NC; CONTACT RATING: 10 A; ACTION: SPDT; TERMINAL: SCREW; MOUNT: SURFACE SOCKET; ENCLOSURE RATING: IP40; MANUF P/N: 7PA2642-1AA00-2; 7XP9012-0; 8 CHANGE OVER CONTACTS			1	
587.	0128322	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 3NO 1NC; ACTION: SPST; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; DRAWING NO: 051-41.7 REV 1; REFERENCE NO: VAA11YP4605AA			1	
588.	0128323	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 240 VDC; CONTACT ARRANGEMENT: 3NO 2NC; ACTION: 3PST; TERMINAL: CAPTIVE SCREW; MOUNT: FLUSH SURFACE; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VAX31ZR2027B; BDZ059.0307-1			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
589.	0128325	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 240-250 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPST; TERMINAL: CAPTIVE SCREW; MOUNT: FLUSH PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; DRAWING NO: ADZ 051.58-3 REV 1; REFERENCE NO: 619190B VAA11; 1B722747/007; VAX12YP1003CA; SINGLE ELEMENT SELF RESET, WITH HAND RESET FLAG INDICATOR, HEAVY DUTY, CASE 1/4N NON DRAWOUT PATTERN PROJECTION			1	
590.	0128318	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 250 VDC; CONTACT ARRANGEMENT: 10NO; ACTION: 10PST; TERMINAL: CAPTIVE SCREW; MOUNT: SURFACE PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: DZ 002-1006; REFERENCE NO: VAA11/CAA41; VAA-250DC CAA-0; 19AMP DC, DIAG			1	
591.	0128321	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 250 VDC; CONTACT ARRANGEMENT: 18NO 2NC; ACTION: 18PDT; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; DRAWING NO: SDZ 001.37-1 REV 1; REFERENCE NO: VAJZ12SP2401AA			1	
592.	0128320	RELAY: TYPE: AUXILIARY; COIL VOLTAGE: 250 VDC; CONTACT ARRANGEMENT: 20NO 2NC; ACTION: 10PDT; TERMINAL: CAPTIVE SCREW; MOUNT: SURFACE PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; DRAWING NO: SDZ 001.36-11 REV 1; REFERENCE NO: VAJX12SP2410HA			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
593.	0128303	RELAY: TYPE: AVR CUBICLE; COIL VOLTAGE: 58 VDC; CONTACT ARRANGEMENT: 3NO 3NC; ACTION: SPDT; TERMINAL: 15 PIN CLIP IN; MOUNT: BASE; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 81XA-81AB, UNK; MODEL NO: ZVT, UNK; SUPPL P/N: GPR101-R2400-2C3/MSX FN; MVAR, REGULATOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
594.	0239532	RELAY: TYPE: AVR; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 8NO 8NC; CONTACT RATING: 10 A; ACTION: 2PST; TERMINAL: 24; MOUNT: J BOXES; ENCLOSURE RATING: IP20; SUPPL P/N: BJ-8BB; REFERENCE NO: HIER 454760 P0001			1	
595.	0128319	RELAY: TURBINE; REFERENCE NO: 8SP423A; REFERENCE NO: C820586; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
596.	0150726	RELAY: TYPE: EARTH FAULT; COIL VOLTAGE: 110/240 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 50 HZ; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; SPECIFICATION: BP2044B; VME21; SUPPL P/N: 100180; IR448128/001; DRAWING NO: BDZ 101037			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		REV 1; REFERENCE NO: 087969R; VME21; BP2044B; ROTER, P/U 37 VDC				
597.	0128145	RELAY: TYPE: EARTH FAULT; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 4-20 MA; ACTION: 4PDT; TERMINAL: 10 CAPTIVE SCREW/BOLTED; MOUNT: FLUSH PANEL VERTICAL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: EF100; OVERLOAD, THERMAL, RESET MANUAL, ENCLOSURE GENERAL PURPOSE, CASE SIZE 1/4 IN, BACK CONNECTED, LAMP INDICATOR			1	
598.	0625753	RELAY: TYPE: ELECTRONIC MOTOR PROTECTION; COIL VOLTAGE: 400 V; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 10-100 A; ACTION: 3P; TERMINAL: 9 PIN; MOUNT: FLANGE; ENCLOSURE RATING: OPEN; MANUF P/N: FPR0138; NEW ELEC MA100; DIGITAL CONTACTS			1	
599.	0612794	RELAY: TYPE: GENERATOR PROTECTION; COIL VOLTAGE: 115-230 VAC; 110-250 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: 1P2T; TERMINAL: SCREW; MOUNT: 19 IN FLUSH; ENCLOSURE RATING: IP50; MANUF P/N: 7UM6221-5EB92-3CBO+LOS; 50 HZ; IEC61850; OPTICAL WITH EN100; WITH ST CONNECTOR; SYSTEM INTERFACE; DIGSI MODEM; RTD BOX RS485; SERVICE INTERFACE WITH MEASURING FUNCTIONALITY FOR ENERGY;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		FUNCTIONALITY; GENERATOR FULL INCL SENSITIVE REF AND 100 PCT STATOR EF				
600.	0612795	RELAY: TYPE: GENERATOR PROTECTION; COIL VOLTAGE: 115-230 VAC; 110-250 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: SPDT; TERMINAL: SCREW; MOUNT: 19 IN FLUSH; ENCLOSURE RATING: IP50; MANUF P/N: 7UT6351-5EB92-2BA3+LOS; 29BI; 24BO; 1 LIFE CONTACT; 50HZ; IEC61850; OPTICAL WITH EN100 WITH ST CONNECTOR; DIGSI; MODEM; BROWSER; RTD-BOX; ELECTRICAL RS485; WITH MEASUREMENT FUNCTION; DIFFERENTIAL PROTECTION; BASIC FUNTIONS AND ADDITIONAL FUNTIONS			1	
601.	0612797	RELAY: TYPE: GENERATOR PROTECTION; COIL VOLTAGE: 115-230 VAC; 110-250 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: SPDT; TERMINAL: SCREW; MOUNT: 9.5 IN FLUSH; ENCLOSURE RATING: IP50; MANUF P/N: 7UM6211-5EB92-0BA0+LOS; 7BI; 12BO; 1 LIVE STATUS CONTACT; 50 HZ; IEC61850; OPTICAL WITH EN100; WITH ST CONNECTOR; DIGSI; MODEM; RTD BOX RS485; FUNCTIONALITY GENERATOR STANDARD			1	
602.	0648050	RELAY: TYPE: GENERAL PURPOSE; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 3CO; CONTACT RATING: 24 VDC; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: SOCKET; ENCLOSURE RATING: IP20; CONTACT MATERIAL: AGNI SILVER NICKEL; MANUF P/N: 3BHL001374P001;			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		REFERENCE NO: 60.13.9.024.0040; 250 VOLT AC CONTACT; RATED LOAD AT 250 VAC IS 500 VA; TEMPERATURE -40 TO 70 DEG C; ENVIRONMENTAL PROTECTION RT1				
603.	0669493	RELAY: TYPE: GENERAL PURPOSE; COIL VOLTAGE: 400 VAC; CONTACT ARRANGEMENT: 2CO; CONTACT RATING: 10 A; ACTION: DPDT; TERMINAL: 8 PIN; MOUNT: PLUG IN; ENCLOSURE RATING: RT I; CONTACT MATERIAL: AGNI; MANUF P/N: 60.12.8.400.0040; REFERENCE NO: REL 33; 2 POLE			1	
604.	0128164	RELAY: TYPE: INTERPOSING; COIL VOLTAGE: 22.5 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: SPST; TERMINAL: CAPTIVE SCREW; MOUNT: REAR; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: KR11			1	
605.	0128204	RELAY: TYPE: MERCURY ANALOG; REFERENCE NO: 68A8195P1			1	
606.	0669491	RELAY: TYPE: MINIATURE PCB/PLUG IN; COIL VOLTAGE: 12 VDC; CONTACT ARRANGEMENT: 2 CO; CONTACT RATING: 8 A; ACTION: DPDT; TERMINAL: 8 PIN; MOUNT: BASE; ENCLOSURE RATING: RT II; CONTACT MATERIAL: AGNI; MANUF P/N: 40.52.9.012.0000; DC SYSTEMS			1	
607.	0669490	RELAY: TYPE: MINIATURE POWER; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 4CO; CONTACT RATING: 12 A; ACTION: 4PDT; TERMINAL: 14 PIN; MOUNT: PLUG IN; ENCLOSURE RATING: RT I;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CONTACT MATERIAL: AGNI; MANUF P/N: 56.34.9.024.0040; REFERENCE NO: REL 1				
608.	0127926	RELAY: TYPE: MINIATURE, GENERAL PURPOSE; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 250 VAC 10 A; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: MK3P5-I; OMRON			1	
609.	0128225	RELAY: TYPE: MINIATURE; COIL VOLTAGE: 24 VDC; CONTACT RATING: 110 VAC 3 A; 24 VDC; TERMINAL: 10 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: HERMETICALLY SEALED; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23162G0721C104; PCB			1	
610.	0128226	RELAY: TYPE: MINIATURE; COIL VOLTAGE: 24 VDC; CONTACT RATING: 110 VAC 3 A 24 VDC; TERMINAL: 10 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: HERMETICALLY SEALED; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23162G0721G404; PCB			1	
611.	0128224	RELAY: TYPE: MINIATURE; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 110 VAC 3 A; 24 VDC; ACTION: DPST; TERMINAL: 10 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: HERMETICALLY SEALED; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23027-A0015-A101			1	
612.	0139371	RELAY: TYPE: OUTPUT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO; CONTACT RATING: 220 VAC 4 A; ACTION:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SPDT; TERMINAL: 2 PIN PLUG IN; CAPTIVE SCREW; MOUNT: BRACKET; SUPPL P/N: OPD 55746; REFERENCE NO: R1511-24; FOR USE ON C/D/E AND F LINE CONVEYORS PLC SYSTEM				
613.	0128268	RELAY: TYPE: OUTPUT; MOUNT: SCREW; REFERENCE NO: SA61S729; SUB ASSEMBLY, FOR TAYLOR 440R CONTROLLER			1	
614.	0669483	RELAY: TYPE: OVER/UNDER VOLTAGE MONITOR; COIL VOLTAGE: MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 10 A; ACTION: SPDT; TERMINAL: 11 PIN; MOUNT: PLUG IN; ENCLOSURE RATING: IP20; MANUF P/N: V3E 400VAC; 3 PHASE; RATED VOLTAGE 250 V; OPERATING TEMPERATURE -10 TO 50 DEG C; DIMENSIONS WD 36 X HT 92 X DP 64 MM; FOR DC SYSTEMS			1	
615.	0128537	RELAY: TYPE: PHASE FAILURE SEQUENCE; COIL VOLTAGE: 380 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 10 A; ACTION: (3) SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: PLUG IN; ENCLOSURE RATING: CASING PLASTIC; SUPPL P/N: SM170 380 3; FOR USE ON DIESEL GENERATOR VOLTAGE MONITORING, CONTACT UNIVERSAL			1	
616.	0612796	RELAY: TYPE: PROTECTION; COIL VOLTAGE: 115-230 VAC; 110-250 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 1 A; ACTION: SPDT; TERMINAL: SCREW; MOUNT: 19 IN FLUSH; ENCLOSURE RATING: IP50; MANUF P/N: 7UT6331-5EB92-			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		2BC3+LOS; 21BI; 24BO; 1 LIVE STATUS CONTACT; UNIT TRANSFORMER PROTECTION RELAY; 50 HZ; 12 CURRENT INPUTS; IEC61850; OPTICAL WITH EN100; WITH ST CONNECTOR; DIGSI; MODEM; BROWSER; RTD-BOX; ELECTRICAL RS485; WITH MEASUREMENT FUNCTION; DIFFERENTIAL PROTECTION PLUS BASIC FUNCTIONS; ADDITIONAL FUNCTIONS OVER AND UNDER VOLTAGE PROTECTION; FREQUENCY PROTECTION LOAD DIRECTION PROTECTION; FUSE FAILURE MONITOR				
617.	0213189	RELAY: TYPE: THERMAL MOTOR PROTECTION TRIPPING; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 220 VAC 1.5 A; ACTION: DPDT; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; SUPPL P/N: 3UN8 004; 50/60 HZ, CONTACT UNIVERSAL			1	
618.	0729409				1	
619.	0128200	RELAY: TYPE: UNDERVOLTAGE; COIL VOLTAGE: 220/380 VAC; CONTACT ARRANGEMENT: 2NO 2NC; TERMINAL: 12 PIN PLUG IN; MOUNT: PANEL; CONTACT MATERIAL: SILVER PLTD; 50HZ, OPERATING VALUE 65-90 PCT OF UNCONTINEOUSLY ADJUSTBLE OPERATING TIME 250MS, INCLUDING RHGX4 FLUSH MOUNTING CASE AND RX 4 BASE			1	
620.	0128121	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 110/220 VAC;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 6IF-GP; FLOATLESS LEVEL SWITCH, SECONDARY VOLTAGE 8VAC, 50HZ				
621.	0128122	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC; MODEL NO: 300; REFERENCE NO: 2-5VRMS; VOLTAGE SENSITIVE			1	
622.	0128123	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC; REFERENCE NO: 18VRMS; 300; VOLTAGE SENSITIVE, CONTACT UNIVERSAL			1	
623.	0128132	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 50 VDC; CONTACT ARRANGEMENT: 3NC; ACTION: 3PDT; TERMINAL: BOLT; MOUNT: PANEL; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VAA31SPEC268-26; GENERAL PURPOSE			1	
624.	0128160	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 110 VAC; CONTACT ARRANGEMENT: 1NO 1NC;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		ACTION: (3) SPDT; TERMINAL: 6 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: 6978; PHASE FAILURE				
625.	0128192	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: METAL BOX; MODEL NO: 69.20.16; REFERENCE NO: SP-200; VOLTAGE REGULATOR, 110/220VAC, FOR USE ON DIESEL GENERATOR			1	
626.	0128215	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 48 VDC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC; SUPPL P/N: 000.003.100.059; REFERENCE NO: NSP2; CONTROL			1	
627.	0128324	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 240 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: CAPTIVE SCREW; MOUNT: FLUSH SURFACE; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: OLRHX4; DRAWING NO: BDZ055.026-1 REV 1; REFERENCE NO: VAX21ZR2016B; HEATER			1	
628.	0128326	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 125 VDC;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CONTACT ARRANGEMENT: 2NO 2NC; ACTION: SPDT; TERMINAL: BOLT; MOUNT: PANEL; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VAA11YP3619AJ; TURBINE, ENCLOSURE GENERAL PURPOSE				
629.	0128339	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; CONTACT ARRANGEMENT: 6NO 6NC; CONTACT RATING: 0.405 A; ACTION: 6PDT; TERMINAL: BOLT; MOUNT: BRACKET; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: CAA61SF3202AB; BFPT PNL, ENCLOSURE GENERAL PURPOSE			1	
630.	0128340	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 220 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: SPDT; TERMINAL: BOLT; MOUNT: PANEL; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: VAA11AF4013AK; ENCLOSURE GENERAL PURPOSE			1	
631.	0128294	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 5 A; ACTION: 4PDT; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: PSK011.6 554421; SWITCHING, 50 HZ, CONTACT UNIVERSAL			1	
632.	0128285	RELAY: TYPE: VOLTAGE MEASURING; COIL VOLTAGE: 220/380 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 2-3 A 50 HZ; ACTION: SPST; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; CONTACT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		MATERIAL: SILVER PLTD; REFERENCE NO: AI-939-01				
633.	0128272	RELAY, CONTROL: MODEL NO: 4162 KEY NO.6PG11; REFERENCE NO: 22B0463-X012; 22B0463-X012 (NEW); REGULATOR PRESSURE, PILOT, FISHER			1	
634.	0706265	RELAY, CONTROL: CONTACT RATING: 220 VAC 5 A; CONTACT ARRANGEMENT: NO NC; COIL VOLTAGE: 220 VAC; ACTION: 3P; MOUNT: BOLT ON; TERMINAL: SCREW; TYPE: MOTOR PROTECTION; MANUF P/N: 323M F 220 A 1 (FGHO); DATA SHEET TO BE PROVIDED			1	
635.	0128199	RELAY, CONTROL: CONTACT RATING: 380 VAC 2.5 A; COIL VOLTAGE: 220 VAC; ACTION: 8PST; MOUNT: SURFACE PANEL; TERMINAL: 18 SCREW CLAMP; CONTACT MATERIAL: CU SILVER PLTD; ENCLOSURE RATING: PLASTIC; SUPPL P/N: 4N8-8R; SERIES 2000, ADJUSTABLE			1	
636.	0128253	RELAY, CONTROL: CONTACT ARRANGEMENT: 6NO; ACTION: 6PST; MOUNT: BRACKET; TERMINAL: 14 PIN PLUG IN; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: V23154D0719B112; DS ITEM NUMBER 75ICZXX044			1	
637.	0124300	RECEPTACLE, ELECTRICAL: TYPE: BANANA PLUG; CAT NO: ECM 1980 PAGE 267; REFERENCE NO: 1605055/8; SOCKET; CONDUCTOR 2MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		DRAWING REVISION NUMBER (IF APPLICABLE).				
638.	0123937	RECEPTACLE, ELECTRICAL: TYPE: BANANA SOCKET; CAT NO: ECM NUMBER 1980 PAGE 266; REFERENCE NO: 1605029/9; CAPTIVE TERMINAL GREEN; POSITION 1; CONDUCTOR 4MM; COMMUNICATIONS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
639.	0124302	RECEPTACLE, ELECTRICAL: TYPE: BANANA SOCKET; CAT NO: ECM 1980 PAGE 267; REFERENCE NO: 1605050/9; 160505019; PLUG; BLUE; CONDUCTOR 2 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
640.	0123934	RECEPTACLE, ELECTRICAL: TYPE: BANANA SOCKET; CAT NO: ECM 1980 PAGE 266; REFERENCE NO: 444-618; 1605026/6; CAPTIVE TERMINAL BLACK; PLUG; POSITION 1; CONDUCTOR 4MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
641.	0123936	RECEPTACLE, ELECTRICAL: TYPE: BANANA SOCKET; CAT NO: ECM 1980 PAGE 266; REFERENCE NO: 444-624; 1605027/4; CAPTIVE TERMINAL BLUE; CONDUCTOR 4MM; POSTION 1; VENDORS ARE			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
642.	0123935	RECEPTACLE, ELECTRICAL: TYPE: BANANA SOCKET; DIMENSIONS: DIA 4 MM; CAT NO: ECM 980 PAGE 266; REFERENCE NO: 1605025/8; CAPTIVE TERMINAL RED; CONDUCTOR 4MM; POSITION 1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
643.	0124133	RECEPTACLE, ELECTRICAL: TYPE: BANANA SOCKET; REFERENCE NO: GT19; COLOUR BLACK; CONDUCTOR 4 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
644.	0158370	RECEPTACLE, ELECTRICAL: TYPE: CONNECTOR BODY; POLE: 1; WIRE: 3; POTENTIAL: 250 V; CURRENT: 6 A; REFERENCE NO: 51870400-2; FOR HONEYWELL PROCESS COMPUTOR; TYPE TDC4500 FLOPPY DISK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
645.	0123242	RECEPTACLE, ELECTRICAL: TYPE: CONNECTOR BODY; POLE: 1; WIRE: 4; CAT NO: E50RA20; FOR CUTLER HAMMER LIMIT SWITCHES; VENDORS ARE RESPONSIBLE FOR ENSURING			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
646.	0123283	RECEPTACLE, ELECTRICAL: TYPE: CONNECTOR BODY; POLE: 3; WIRE: 4; REFERENCE NO: E50SB; SWITCH BODY; LIST NUMBER 93152; DOUBLE POLE; 2 NO/2 NC CONTACTS; FOR PLUG IN LIMIT SWITCH E50; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
647.	0123155	RECEPTACLE, ELECTRICAL: TYPE: PLUG; POLE: 4; REFERENCE NO: VR20R1; NOVAFIX; CONFIGURATION: DUAL PINS; CONNECTION: SCREW; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
648.	0124308	RECEPTACLE, ELECTRICAL: TYPE: SOCKET; REFERENCE NO: VZ3533-BZ151-F405 (NEW); C74334-A80-A60 (OLD); MALE; MATCHING THE 48 WAY FEMALE; STYLE F; POSITION 48; SPECIFICATION DIN41612; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
649.	0138460	RECEPTACLE, ELECTRICAL: TYPE: SOCKET; POLE: 3; POTENTIAL: 220 VAC; CURRENT: 15 A; REFERENCE NO: 12410; TYPE SWITCH, CONNECTION SCREW, SWITCH PLUG COMBINATION, SINGLE, FLUSH MOUNTED, 4			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		X 4 INCH (100 X 100MM ), COMPLETE WITH FACE PLATE AND SCREWS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
650.	0138402	RECEPTACLE, ELECTRICAL: TYPE: SOCKET; POLE: 3; WIRE: 3; POTENTIAL: 220 VAC; CURRENT: 16 A; 50HZ, SINGLE, SURFACE MOUNT; CONNECTION: SCREW, INDUSTRIAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
651.	0124127	RECEPTACLE, ELECTRICAL: TYPE: WELDING; POLE: 1; WIRE: 1; CURRENT: 400 A; REFERENCE NO: 054-152; CABLE COUPLING CONNECTOR, FEMALE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
652.	0124318	RECEPTACLE: TYPE: AAF PRECIPITATOR; MANUF P/N: R141557; CONNECTOR; KBN 18; UG 1094/U; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
653.	0137231	PLUG, CONDUIT: TYPE: THINWALL; SIZE: 25 MM; HEAD: HEX; CONNECTION: NPT; MATERIAL: AL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		DRAWING REVISION NUMBER (IF APPLICABLE)				
654.	0737007	PLUG, DRAIN: TYPE: CW 1600 PUMP; APPLICATION: CW 1600 PUMP; SIZE: 1 IN-BSP; MATERIAL: STAINLESS STEEL; MANUF P/N: 7709705032EH; REFERENCE NO: ITEM 32			1	
655.	0139322	PLUG, ELECTRICAL: SUPPL P/N: 6.1; MODEL NO: SA6-SA100; WIRING DEVICE; MALE; FOR USE ON AUMA ACTUATOR			1	
656.	0175023	PLUG, ELECTRICAL: TYPE: CIRCUIT BREAKER DR36U1750D 22 KV; MANUF P/N: 8392			1	
657.	0139394	PLUG, ELECTRICAL: POLE: 10; WIRE: 11; POTENTIAL: 380 VAC; CURRENT: 16 A; SUPPL P/N: 42.32.10.05; 43.22.1.41; WIRING DEVICE; FEMALE HOODSIDE ENTRY; PG1 X 16; ORDER CODE HB10 STS 1.16; WITH FEMALE INSERT HE 10C; ORDER CODE HE10 BU; INDEFINATE CLEAN AND DRY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
658.	0143242	PLUG, ELECTRICAL: POLE: 2; WIRE: 2; POTENTIAL: 380 VAC; REFERENCE NO: STV3; WIRING DEVICE; TERMINAL; FOR USE ON 380 VOLT HUND WEBER CIRCUIT BREAKER MODEL LH2500			1	
659.	0124288	PLUG, ELECTRICAL: POLE: 2; POTENTIAL: 250 V; CURRENT: 15 A; SUPPL P/N: 22SPLA; MALE			1	
660.	0124120	PLUG, ELECTRICAL: POLE: 3; WIRE: 3; POTENTIAL: 240 V; CURRENT: 16 A; SUPPL			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		P/N: ABL17; TYPE WIRING DEVICE, MALE PLUG, CLOCK HOUR POSITION 6H, (2P+E), COMPLETE WITH GROMMET, 220-240V, IP44				
661.	0124315	PLUG, ELECTRICAL: POLE: 31; WIRE: 32; SPECIFICATION: DIN 41612; DRAWING NO: SIEMENS ET1 1983 4 P 9 REV 1; REFERENCE NO: C74334-A80-A20; 41612; TELEPERM C 32 PIN MALE WIRING DEVICE			1	
662.	0124284	PLUG, ELECTRICAL: POLE: 32; SPECIFICATION: DIN 41612; SUPPL P/N: C74334-A80-A24; CAT NO: SIEMENS ET1 1983 4 P 9; WIRING DEVICE; MALE			1	
663.	0124291	PLUG, ELECTRICAL: POLE: 37; WIRE: 38; REFERENCE NO: 207800-12; WIRING DEVICE; VARELCO ARUE SPARE			1	
664.	0143241	PLUG, ELECTRICAL: POTENTIAL: 380 VAC; REFERENCE NO: STV2; WIRING DEVICE; TERMINAL; FOR USE ON 380 VOLT HUND WEBER CIRCUIT MODEL LH2500			1	
665.	0142320	PLUG, ELECTRICAL: POLE: 56; WIRE: 57; POTENTIAL: 660 VAC; SUPPL P/N: TS-602; WIRING DEVICE; 56 WAY; FOR USE ON MITSUBISHI AIR CIRCUIT BREAKET MODULE AE2500S; MITSUBISHI BRAND ONLY			1	
666.	0143240	PLUG, ELECTRICAL: POLE: 6; WIRE: 6; POTENTIAL: 380 VAC; CURRENT: 2 A; REFERENCE NO: STV1; WIRING DEVICE; TERMINAL; FOR USE ON 380 VOLT HUND WEBER CIRCUIT BREAKER MODEL LH2500			1	
667.	0143243	PLUG, ELECTRICAL: POLE: 6; WIRE: 6; POTENTIAL: 380 VAC; CURRENT: 7 A; REFERENCE NO: STV5; WIRING DEVICE;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TERMINAL; FOR USE ON HUND WEBER CIRCUIT BREAKER MODEL LH2500				
668.	0124317	PLUG, ELECTRICAL: POLE: 6; WIRE: 7; POTENTIAL: 380 VAC; CURRENT: 16 A; SUPPL P/N: 42.32.06.03; REFERENCE NO: PG13-5; HX66-22-06-40; WIRING DEVICE; FEMALE HOODSIDE ENTRY; ORDER CODE HB6 STS 1.13; WITH FEMALE INSERT			1	
669.	0123955	PLUG, ELECTRICAL: REFERENCE NO: 63A; BOXES; TYPE J; COMPLETE WITH PIPESTANDS			1	
670.	0139323	PLUG, ELECTRICAL: TYPE: FEMALE; POLE: 6; WIRE: 7; SUPPL P/N: 6.2; WIRING DEVICE; FOR USE ON AUMA ACTUATOR MODEL NO: SA6-SA			1	
671.	0132281	PLUG, ELECTRICAL: TYPE: INTERNAL CIRCUIT; POLE: 7; WIRE: 7; CAT NO: SIEMENS C74103-A969-E71; SIEMENS W1-1974/75; REFERENCE NO: C74103A969E071; FOR STANDARD FIELDS 48 X 24MM; FOR USE WITH MINIATURIZED CONTROL ROOM TECHNIQUE; SCHEDULE NO C02.01.246			1	
672.	0132276	PLUG, ELECTRICAL: TYPE: INTERNAL CIRCUIT; POLE: 7; WIRE: 7; POTENTIAL: 48 VDC; CAT NO: C74103-A969-E72; W1-1974/75; C74103A969E072; FOR STANDARD FIELDS 48 X 24MM, FOR USE WITH MINIATURIZED CONTROL ROOM TECHNIQUE			1	
673.	0132310	PLUG, ELECTRICAL: TYPE: INTERNAL CIRCUIT; POLE: 9; WIRE: 9; CAT NO: SIEMENS C74103-A969-E10; SIEMENS W1-1974/75; REFERENCE NO: C74103A969E10; FOR STANDARD FIELDS 48 X 24MM; FOR USE			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		WITH MIN IATURIZED CONTROL ROOM TECHNICIQUE				
674.	0124314	PLUG, ELECTRICAL: TYPE: MOTOR TERMINAL; POLE: 6; POTENTIAL: 380 VAC; CURRENT: 16 A; SUPPL P/N: 42.50.06.000; 66.12. 06.04; MALE HOUSING; ORDER CODE HB6 AG-LB; WITH MALE INSERT; INDEFINATE CLEAN AND DRY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
675.	0124617	PLUG, ELECTRICAL: TYPE: SOCKET; POLE: 10; POTENTIAL: 380 VAC; CURRENT: 16 A; REFERENCE NO: 42.22.10.41; HE10; TYPE FEMALE INSERT, CONFIGURATION DUAL INLINE PINS, CONNECTION CLAMPED, FEMALE INSERT			1	
676.	0156089	PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H11K; QUICK; MALE; FOR TYPE K THERMOCOUPLES; AMERICAN STD COLOUR CODING ONLY			1	
677.	0156090	PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H20K; QUICK; FEMALE SOCKET; FOR TYPE K THERMOCOUPLES			1	
678.	0403449	PLUG, ELECTRICAL: TYPE: TOP; POLE: 3; POTENTIAL: 250 V; CURRENT: 16 A; NYLON WITH CLEAR POLYCARD BASE; COLOUR CLEAR			1	
679.	0123796	PLUG, ELECTRICAL: TYPE: TOP; POLE: 3; WIRE: 3; POTENTIAL: 250 VAC; CURRENT: 16 A; REFERENCE NO: PT/LX16A2P/PVCR; WIRING DEVICE; TO BE SECURED BY SCREWS			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		AND NOT SNAPPED; SABS APPROVED; SCREWLESS CORD GRIP				
680.	0124126	PLUG, ELECTRICAL: TYPE: WELDING; POLE: 1; WIRE: 1; CURRENT: 400 A; SUPPL P/N: 054- 151; CABLE; MALE; QA17			1	
681.	0137231	PLUG, CONDUIT: TYPE: THINWALL; SIZE: 25 MM; HEAD: HEX; CONNECTION: NPT; MATERIAL: AL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
682.	0737007	PLUG, DRAIN: TYPE: CW 1600 PUMP; APPLICATION: CW 1600 PUMP; SIZE: 1 IN- BSP; MATERIAL: STAINLESS STEEL; MANUF P/N: 7709705032EH; REFERENCE NO: ITEM 32			1	
683.	0139322	PLUG, ELECTRICAL: SUPPL P/N: 6.1; MODEL NO: SA6-SA100; WIRING DEVICE; MALE; FOR USE ON AUMA ACTUATORPLUG, ELECTRICAL: SUPPL P/N: 6.1; MODEL NO: SA6-SA100; WIRING DEVICE; MALE; FOR USE ON AUMA ACTUATOR			1	
684.					1	
685.	128196	SOLENOID, ELECTRICAL: DUTY TYPE: BRAKE; COIL VOLTAGE: 220-240 VAC; REFERENCE NO: 01-1-0; UOL 5/10, PACK 1, SIZE 5	EA		1	
686.	686962	SOLENOID, ELECTRICAL: DUTY TYPE: CONTROL VALVE; COIL VOLTAGE: 220 V; SUPPL P/N: RF-220V; HIGH FREQUENCY; ID 20 X OD 50 X LG 60 MM; CW SYSTEM AUTO CLOSING VALVE	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
687.	128883	SOLENOID, ELECTRICAL: DUTY TYPE: DIRECTIONAL CONTROL VALVE; COIL VOLTAGE: 220 VDC; REFERENCE NO: D16-102; FOR FOUR WAY, MODEL CODE 3D02-34-111-01-01-00A5, 48 WATT, FOR FRF MAIN OIL PUMP	EA		1	
688.	130510	SOLENOID, ELECTRICAL: DUTY TYPE: LEAK OFF VALVE; COIL VOLTAGE: 220-240 VAC; TYPE EP200/TS, 3 WAY, 1/4IN BSP	EA		1	
689.	677890	SOLENOID, ELECTRICAL: DUTY TYPE: OPEN/CLOSE; COIL VOLTAGE: 24 VDC; MANUF P/N: 163141; REFERENCE NO: CPE18-M1H-3GL-1/4	EA		1	
690.	677891	SOLENOID, ELECTRICAL: DUTY TYPE: OPEN/CLOSE; COIL VOLTAGE: 24 VDC; MANUF P/N: 507848; POWER RATING 30W	EA		1	
691.	677892	SOLENOID, ELECTRICAL: DUTY TYPE: OPEN/CLOSE; COIL VOLTAGE: 24 VDC; MANUF P/N: 770-224; NOMINAL COIL RESISTANCE 26.2 OHM	EA		1	
692.	130241	SOLENOID, ELECTRICAL: DUTY TYPE: RAPID DRAIN VALVE; COIL VOLTAGE: 24 VDC; TYPE DRF035/3-0-10 BAR, COMPLETE WITH GASKETS AND SEALS, FOR R110KGS 3 WAY, FOR USE ON EFP	EA		1	
693.	130492	SOLENOID, ELECTRICAL: DUTY TYPE: UNLOADER VALVE; COIL VOLTAGE: 208-240 VAC; TYPE ASC, 18VA, IP00-65, FOR USE ON DWM COPELAND COMPRESSORS	EA		1	
694.	130363	SOLENOID, ELECTRICAL: DUTY TYPE: VALVE; COIL VOLTAGE: 208-240 VAC; SUPPL P/N: 014230 DA001; REFERENCE NO: 014230;	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		DA001; 14WATT, EF-19XM 234, CARRIER MODEL 30HS040 FOR USE ON AIR CONDITIONING PLANT				
695.	126657	SOLENOID, ELECTRICAL: DUTY TYPE: VALVE; COIL VOLTAGE: 220 VAC; 24 VDC; SUPPL P/N: 212-A-03.0-B-MS; REFERENCE NO: FLNSCH-F- 000; 043949FMLUR; 8 WATT; NOMINAL PRESSURE 0 TO 6 BAR	EA		1	
696.	129047	SOLENOID, ELECTRICAL: DUTY TYPE: VALVE; COIL VOLTAGE: 220 VDC; REFERENCE NO: C 80411; 5812716; TYPE 581 2716, BORE 0.75, FOR USE ON LP FEED HEATING	EA		1	
697.	129423	SOLENOID, ELECTRICAL: DUTY TYPE: VALVE; COIL VOLTAGE: 220 VDC; REFERENCE NO: WPSC8321A1; 400-325-153; SPADE PLUG CONNECTION, COMPLETE WITH SPADE PLUG CONNECTOR AND RETAINING CUP, SIZE 44MM HIGH X 43MM WIDE X 35MM LONG, WITH 12MM DIAMETER HOLE IN CENTRE, FOR USE ON WPSC 8321-A1	EA		1	
698.	130764	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 80 A; INDUSTRY STANDARD: T500084005AQ/7736; REFERENCE NO: T500084005QA/7736; STUD, FOR USE ON BATTERY CHARGER 1DC-0501	EA		1	
699.	130765	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 1.2 KA; INDUSTRY STANDARD: T500084005AQ/8020; POTENTIAL: 80 V; REFERENCE NO: T500084005AQ8020	EA		1	
700.	131495	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 80 A; INDUSTRY	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		STANDARD: T510035007QA/7924; REFERENCE NO: T510035004AQ-7924				
701.	131496	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 35 A; INDUSTRY STANDARD: ECG4458; POTENTIAL: 800 V; REFERENCE NO: ECG 4458	EA		1	
702.	131540	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 35 A; INDUSTRY STANDARD: 16R1A80; SUPPL P/N: 16R1A80; FOR USE ON BATTERY CHARGERS	EA		1	
703.	131552	ICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: SKT240-12E; REFERENCE NO: SKT240-12E; FOR USE ON AAF PRECIPS	EA		1	
704.	131554	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: GEC430PB; POTENTIAL: 1.2 KV; REFERENCE NO: GE C430PB; C430PB; PRESS PACKAGE OUTLINE NO 307, FOR PHASE CONTROL	EA		1	
705.	131567	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 275 A; INDUSTRY STANDARD: T500084005AQ/7736; POTENTIAL: 600 V; REFERENCE NO: T50084005AQ7736	EA		1	
706.	131570	THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 80 A; INDUSTRY STANDARD: T500128005QY; REFERENCE NO: T500128005QY; T500128005	EA		1	
707.	131538	THYRISTOR: CONTROLLER/POWER CONVERTER MODULE; INDUSTRY STANDARD: SYLECG554692C1; FOR USE ON MILL FEEDER CONTROLLER AND POWER CONVERTOR MODULE 3-Z 3993	EA		1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
708.	131246	THYRISTOR: TYPE: TRIODE; CURRENT: 16 A; INDUSTRY STANDARD: 2N688; POTENTIAL: 400 V; REFERENCE NO: 2N688; STUD, REVERSE BLOCKING	EA		1	
709.	130449	TRANSFORMER, DISTRIBUTION: TYPE: STEPDOWN; APPARENT POWER: 100 VA; POTENTIAL: 380/415-110/220-240 VAC; PHASE: 1; REFERENCE NO: 11G5CP; FOR USE ON HYDROGEN BOTTLING PLANT	EA		1	
710.	130359	TRANSFORMER, DISTRIBUTION: TYPE: STEPDOWN; APPARENT POWER: 150 VA; POTENTIAL: PRIM 220; SEC 26/28/30 V; PHASE: 1; FOR LP SERVICES DEMIN PUMP MOTOR CONTROLS	EA		1	
711.	130451	TRANSFORMER, DISTRIBUTION: TYPE: STEPDOWN; APPARENT POWER: 20 KVA; POTENTIAL: 220-120 V; PHASE: 1; WINDING TYPE: DOUBLE; REFERENCE NO: 7331; 50HZ, POWER	EA		1	
712.	39960	TRANSFORMER, DISTRIBUTION: TYPE: STEPDOWN; POTENTIAL: 380-12 VAC; SUPPL P/N: KS25/34-199; FOR USE ON ANSTAN HUMIDIFIER MODEL KS ON AIR CONDITIONING PLANT	EA		1	
713.	145218	WIRE, ELECTRICAL: TYPE: FLEXIBLE; SIZE: 2.5 MM2; COLOR: BLUE; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: SILICON; 100 METER PER ROLL, WITH SABS MARK OF APPROVAL ON EACH ROLL	M		1	
714.	602188	HEATER: TYPE: S03 PROCESS AIR; POTENTIAL: 380 V; POWER: 120 KW; DIMENSIONS: LG 2.1 M; MOUNTING METHOD: FLANGE; MANUF			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		P/N: DSD-055; DRAWING NO: EJ0400/DUVHA/1/2 REV 0; REFERENCE NO: EJ400/D/120-2/75; FLANGE DIAMETER 250NB,PRESSURE-OPERATING 70KIPA; QTY OF BANKS THREE,QTY OF THERMOCOUPLES- THREE-ONE FOR EACH BANK; QUANTITY OF TUBULAR ELEMENTS 36; WATT DENSITY- ELEMENTS 2.4 W/CM2; 3 PHASE DELTA CONNECTED COIL MUST BE MADE OF INCONEL MATERIAL; ESKOM ELECTRICAL MAINTENANCE DEPARTMENT TO CONDUCT QUALITY CONTROL CHECKS AT THE SUPPLIER SITE BEFORE DELIVERY OF THE HEATERS; QC TO BE CONDUCTED AS PER QM58 DOCUMENT 240-105658000 - SUPPLIER QUALITY MANAGEMENT SPECIFICATION				
715.	28349	GEAR, HELICAL: TEETH: 60; BORE: 9.5 MM; FACE WIDTH: 13 MM; MATERIAL: BAKELITE; REFERENCE NO: 392681-1120; WORM GEAR; FOR IR2 GUN BLOWER ON WALL BLOWERS; DIAMETRAL PITCH: 0.63; PITCH DIAMETER: 95.8MM			1	
716.	0128218	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: DPDT; TERMINAL: 9 PIN SOLDER; MOUNT: PCB; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: V23012A0105A004; PLUG IN, SM			1	
717.	123623	SWITCH, LIMIT: POTENTIAL: 600 VAC; CURRENT: 5 A; ACTION: DPDT; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT:			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		2NO 2NC; SUPPL P/N: DB2/53; REFERENCE NO: 847340-9028; FOR GUN TYPE BLOWER IR2				
718.	0144704	CORD, ELECTRICAL: TYPE: EXPANDA; SUPPL P/N: 332825-5025; REFERENCE NO: IK545B; (4) STRANDED COPPER CONDUCTOR SIZE 2.5MM SQUARE, PVC CONDUCTOR INSULATION, SPECIAL RUBBER COVERING, COMPLETE WITH RUBBER MOULD-ON PLUGS ON EACH END, 90 DEGREE CR-49 14/4 TYPE SO, "EPM" INSULATED WITH "HYTREL"SHEATH COILED RETRACTA-FLEX,CONSTRUCTED IN LEFT HAND COILED FORM,COMPLETE WITH MALE AND FEMALE COUPLINGS			1	
719.	669985	MODULE: TYPE: RS-18 LIFT REMOTE STATION; INPUT: 24 V; OUTPUT: 24 V; APPLICATION: OTIS LIFTS; DIMENSIONS: WD 71 X LG 120 MM; OEM P/N: GEA 25005 C2			1	
720.	583138				1	
721.	0706265	RELAY, CONTROL: CONTACT RATING: 220 VAC 5 A; CONTACT ARRANGEMENT: NO NC; COIL VOLTAGE: 220 VAC; ACTION: 3P; MOUNT: BOLT ON; TERMINAL: SCREW; TYPE: MOTOR PROTECTION; MANUF P/N: 323M F 220 A 1 (FGHO); DATA SHEET TO BE PROVIDED			1	
722.	0704447	STARTER, ELECTRIC MOTOR: CONTACT RATING: 85 A; INDUSTRY SIZE: 45 KW; TYPE: SOFT; COIL VOLTAGE: 380-415 VAC; CONTACT ARRANGEMENT: NC; SPECIFICATION: IEC 60947-4-2; REFERENCE			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		NO: EMX3; 45 TO 65 HZ; MOMENTARY >80 V TO 240 VAC/DC, 15 K IMPEDANCE; DO NOT AUTO RESET; INITIAL CURRENT LIMIT AT 600 PCT TO KICK START THE LOAD; THEN CURRENT LIMIT AT 300 PCT FOR ACCELERATION; SUPPLIER TO CONDUCT SITE VISIT BEFORE DELIVERY; FOR USE ON TURBINE BARRING GEAR MOTOR DRIVE 37 KW MOTOR				
723.	0700959	BREAKER, CIRCUIT, LOW VOLTAGE: TYPE: C MOLDED CASE FRAME; CURRENT RATING: 250 A; POLES: 3; MOUNT: BASE; VOLTAGE PROTECTION LEVEL: 690 V; SHORT TIME CURRENT: 3 MS AT 10 KA; SERVICE SHORT CIRCUIT BREAKING CAPACITY: 40 KA; POLLUTION CLASS: III; ENCLOSURE RATING: 1; SPECIFICATION: SANS 156; APPLICATION: S03 HEATER PROTECTION; PROTECTION: INTERCHANGEABLE THERMAL-MAGNETIC; REFERENCE NO: JW3250F; 70-250 AMPS ADJUSTABLE CURRENT; SUPPLIER TO PROVIDE SPECIFICATION, TEST CERTIFICATE AND CORRECT DRAWINGS WITH A NUMBER			1	
724.	0648540	ASSEMBLY: TYPE: AIR HEATER; APPLICATION: DHP AEROSLIDE FAN HEATER; MATERIAL: STL; DRAWING NO: DUVH OPO 12107 REV 0; REFERENCE NO: HEA-162-01; FLOOR MOUNTED; INLET FLANGE 250NB; OUTLET FLANGE 300NB; LENGTH 1850 MM; POTENTIAL 400VAC, 3 PHASE; 162 KW; 231 AMP MAXIMUM; SANS 50025 GRADE S275JR AND SANS 62			1	



ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
725.	0721893	INVERTER: TYPE: DIP PROOF; POWER: 4.5 KVA; OUTPUT RATING: 230 VAC; SUPPL P/N: 5003-149; DRAWING NO: 0.57/40898 REV 1; MODEL NO: DPI54L 30MF/230V/25A/4.5KVA; THE DPI MUST VISIBLY STATE VERSION 2.2; LATEST MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH ITEMS			1	
726.	719294	COIL, ELECTRICAL: FUNCTION: FIRST SHUNT TRIP; POTENTIAL: 230-240 VDC; CURRENT: 1 A; USAGE DESIGN: 3.3KV AIS BREAKER; POWER: 140 W; MANUF P/N: 3AY1510-5F; DRAWING NO: 0.57/57713 REV 1; FIRST SHUNT TRIP COIL OR CLOSING SOLENOID; LATEST MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH ITEMS			1	
727.	719295	COIL, ELECTRICAL: FUNCTION: SECOND SHUNT TRIP; POTENTIAL: 220-240 VDC; CURRENT: 0.5 A; USAGE DESIGN: 3.3 KV AIS BREAKER; POWER: 70 W; MANUF P/N: 3AX1101-2F; DRAWING NO: 0.57/57713 REV 1; BACKUP TRIP COIL; LATEST MATERIAL SAFETY DATASHEET TO BE SUPPLIED WITH ITEM			1	
728.	0708638	HEATER, IMMERSION: TYPE: ELEMENT; DIMENSIONS: DIA 215 X 475 MM; POTENTIAL: 380 V; POWER: 18 KW; CURRENT: 50 A; FLANGED			1	
729.	0136115	ROD: TYPE: SUSPENSION; DIMENSIONS: LG 11.22 M; MATERIAL: STL; REFERENCE NO: 393770-1021; FOR SOOTBLOWER TYPE IK 545B			1	
730.	0708289	POWER SUPPLY: INPUT: 230 V 3500 W; OUTPUT VOLTAGE: 230 VAC; OUTPUT			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CURRENT: 22 A; TYPE: UNINTERRUPTED; 2 LINE INTELLIGENT DIAGNOSTIC DISPLAY; ADVANCED PWM; SINGLE CONVENTIONAL WITH LONG RUN INTERNAL BATTERY; INTERNAL SEAL BATTERY WITH SUM OF 32 X (12 V 7 AH)				
731.	0053499	ELEMENT, HEATER: DIMENSIONS: DIA 3.4 MM X LG 21 M; TYPE: HOPPER; POTENTIAL: 230 VAC; POWER: 1.03 KW; MATERIAL: STAINLESS STEEL; TEMPERATURE RATING: 450 DEG C; REFERENCE NO: XSS5021; MINERAL INSULATED SHEATHED CABLE; GRADE 2.2; FOR UNITS 1 TO 3			1	
732.	671215	CONTROLLER: TYPE: LIFT LCB2 BOARD; RANGE: -15 TO 50 DEG C; RATING: 110 V; APPLICATION: OTIS LIFT; MANUF P/N: GGA21240D-1; POWER SOUCE 51 KW; DIMENSIONS WD 220 X LG 240 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
733.	669983	MODULE: TYPE: RS14 CALL PRINTS; INPUT: 0- 24 V; OUTPUT: 24 V; APPLICATION: OTIS LIFT REMOTE STATION; DIMENSIONS: WD 39 X LG 66 MM; OEM P/N: GAA 25005 B10			1	
734.	669985	MODULE: TYPE: RS-18 LIFT REMOTE STATION; INPUT: 24 V; OUTPUT: 24 V; APPLICATION: OTIS LIFTS; DIMENSIONS: WD 71 X LG 120 MM; OEM P/N: GEA 25005 C2			1	
735.	632995	SENSOR: TYPE: ELEVATOR LEVEL; RANGE: 90 DEG C; RATING: 1.1 KW AT 16 A; ELECTRICAL CONNECTION: PLUG; MOUNT: SCREW;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		DIMENSIONS: WD 40 X LG 350 X HT 255 MM; SUPPL P/N: GAA22439E12; COMPLETE OTIS PRS FOR SHAFT-GAA22439W12				
736.	669981	CONTROLLER: TYPE: LIFT DOOR DRIVE; RANGE: -15 TO 50 DEG C; RATING: 80 W; APPLICATION: OTIS LIFT; OUTPUT: 0-24 V; MOUNTING: SCREW; INPUT: 24 VAC; MANUF P/N: 903510G015-L; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
737.	666028	CONTROLLER: TYPE: LIFTING CAR; RANGE: 0- 128 H2 FREQUENCY; RATING: 180-265 V 3.1 A INPUT; APPLICATION: ELEVATOR LIFT CAR; OUTPUT: 3 A; MOUNTING: BOLTED; INPUT: AC; SUPPL P/N: GBA24350BH 1; SEMICONDUCTOR CONVERTER: TYPE: DCSS5- E, PART NO: GBA2435DBH1IP20 PROTECTION; INPUT = 1 PHASE AC 180-265 VAC 3.1 MAX AMPS 3 PHASES OUTPUT; 0- 128 H2 OUTPUT; 3 A MAX OUTPUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
738.	669984	CONTROLLER, ELECTRONIC: TYPE: TOP LIFT CAR; POTENTIAL: 220 V; OUTPUT: 0-265 V; INPUT: 180-265 V; MOUNTING: SCREW; CURRENT: 1.6-3 A; POWER: 265 W; MANUF P/N: GBA 24350 BH 3; PROTECTION IP20; FOR USE ON ADMIN BUILDING LIFT; TYPE DCSS5-E; WD 73 X LG 310 X THK 50MM			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
739.	671217	CONTROLLER, ELECTRONIC: TYPE: LIFT DRIVE; POTENTIAL: 380-480 V; OUTPUT: 45/90 A; INPUT: 40/60 A; MOUNTING: BOLTED; POWER: 15 KW; MANUF P/N: GAA21344-C1; OVF 20 CR; FOR USE IN MOTOR ROOM; PROTECTION IP20			1	
740.	0632995	SENSOR: TYPE: ELEVATOR LEVEL; RANGE: 90 DEG C; RATING: 1.1 KW AT 16 A; ELECTRICAL CONNECTION: PLUG; MOUNT: SCREW; DIMENSIONS: WD 40 X LG 350 X HT 255 MM; SUPPL P/N: GAA22439E12; COMPLETE OTIS PRS FOR SHAFT-GAA22439W12			1	
741.	0659412	CONTROLLER: TYPE: SEMICONDUCTOR CONVERTER; RANGE: 180-265 VAC; RATING: 1.6-1 A; APPLICATION: DOOR DRIVE OPERATING UNIT; MOUNTING: WALL; SUPPL P/N: DCSS-E; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			1	
742.	0648645	BREAKER, CIRCUIT: SWITCHGEAR DESIGN: AIR INSULATED; POTENTIAL: 12 KV; CURRENT: 800 A; SHORT TIME CURRENT: 31.5 KA; POLE: 3; CONTROL VOLTAGE: 220 VDC; POINT ON WAVE: NONE; CREEPAGE: 179 MM; BASIC INSULATION LEVEL: 28/75 KV; INSULATION MATERIAL: AIR; OPERATING CONTROL TYPE: VACUUM; POLLUTION CLASS: NORMAL; APPLICATION: PROTECTION DEVICE; MANUF P/N: 3AE1555-1			1	
743.	0160594	WADER: TYPE: FISHERMANS; SIZE: 8; MATERIAL: PVC; COLOR: GREEN OLIVE;			1	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		WATERPROOF; CONSIST OF TROUSERS AND ATTACHED BOOTS; UNIQUE IDENTIFIER 240-44175132				
744.	0194331	SOLVENT: TYPE: ELECTRICAL CLEANER; CONTAINER: 25 L; SUPPL P/N: FO655; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; ENVIRO			1	
745.	0683199	HEATER, SPACE: TYPE: BFPT OL PURIFIER HOT TUBE; DIMENSIONS: DIA 335 X LG 125 X HT 820 MM; POWER: 36 KW; POTENTIAL: 230/400 V; MOUNTING METHOD: FLANGED; FOR BFPT COALESCER HEATERS; SUPPLIER TO COMPLY WITH SOURCE DOCUMENT REF LUBE BUNDLE; SUPPLIER TO PROVIDE SPECIFICATION AND TEST CERTIFICATES AND CORRECT DRAWING NUMBER, 18 Z 2000			1	

The total of the Prices

## C3.1: *PURCHASER'S* GOODS INFORMATION

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## Overview and purpose of the *goods* and *services*

Provide an overview as an aide to the tendering supplier summarising the nature and purpose of the *goods* and the associated *services* (if any), together with some details about the supply requirements.

## Specification and description of the *goods*

The content of this section is the meat of the scope of work and will depend on the nature of the *goods* required. For example the *goods* may already be available from the *Supplier*, and just need minor alterations to meet the *Purchaser's* requirements, or they may be unique and designed specifically for this contract. Accordingly there may be a need to:

- § Provide full technical specifications of the *goods* or the *Purchaser* may, as an alternative, provide a user requirement specification (URS) for the *goods* from which the *Supplier* then designs the *goods* to achieve the required performance.
- § Provide drawings and information about the environment where the *goods* are to be put to use.
- § Provide specifications of the component parts (plant and materials) used in the *goods* which may include minimum material standards and workmanship.

The specifications may be included here or provided as Annexure and just listed here.

## *Purchaser's* design

Clause 21.1 requires that the *Purchaser* states which parts of the *goods* he is to design. Complete as required or delete. Be careful not to duplicate what may already be covered in the *Purchaser's* operating philosophy / user requirement specification (URS) / performance specification described elsewhere in this Goods Information.

## Procedure for submission and acceptance of *Supplier's* design

**This is a mandatory requirement of core clause 21.2** and must be addressed. Identify the extent of detail (the particulars) of the *Supplier's* design which is to be submitted to the *Supply Manager* for his acceptance. . State requirements for drawings to be prepared by the *Supplier*.

## Other requirements of the *Supplier's* design

Use this section to describe any particulars which must be taken into account by the *Supplier* in his design; for example codification of the *goods*.



### **Use of *Supplier's* design**

First read core clause 22.1 and then include here the exceptions and other purposes if applicable. If there are none this section could be deleted leaving the core clause to stand.

### **Manufacture & fabrication**

Although the *Purchaser* does not usually prescribe how the *goods* are to be manufactured and fabricated, if there are any specific requirements they could be stated here.

### **Factory acceptance testing (FAT)**

Core Clauses 40 and 41 both make reference to the Goods Information regarding tests and inspections. There are often comprehensive requirements for testing at place of manufacture and before delivery. State whether the tests are to be witnessed by the *Supply Manager* or by a testing agency of the *Purchaser's* nomination. Note, *Supplier* may not restrict *Supply Manager's* right to witness tests per clause 25.2

### **Other tests and inspections and commissioning in place of use**

Describe any other tests and inspections that may be required, specifically in the place of use. If the *Supplier* is to commission the *goods* in the place of use after Delivery, describe the process here. If he is only required to witness and report on the commissioning done by others, this would be included as a service in section 4 below.

### **Operating manuals and maintenance schedules**

Use this section to describe these requirements. Pay particular attention to when and in what form they are required. Consideration should be given to obtaining operating manuals and maintenance schedules before Delivery of the whole of the *goods* when there is still financial incentive for the *Supplier* to do so.

## Supply Requirements

Clause 11.2(16) defines Supply Requirements and clause 11.2(8) states that they are part of the Goods Information. They can either be included here or as an Annexure to the Contract Data provided by the *Purchaser* because of their commercial nature. Eskom has chosen to include them in the C1.2a Contract Data, hence include the following text here:

The Supply Requirements for this contract are in an Annexure to the Contract Data provided by the *Purchaser*.

## Specification of the services to be provided

These services may include training of the *Purchaser's* staff in the use of the *goods*, supervision of installation of the *goods* on the *Purchaser's* property and post Delivery commissioning and monitoring of the *goods* in use. Ensure that all items of service specified can be related to an item in the Price Schedule

## Constraints on how the *Supplier* Provides the Goods

### Programming constraints

Read clause 31.2 first then state what additional information (if any) is to go in the programme per the last bullet of clause 31.2. Describe any particular constraints on the order and timing of the work which the *Supplier* must take into account in his programme.

## Work to be done by the Delivery Date

Clause 11.2(5) defines Delivery as when the *Supplier* has done all the work which the Goods Information states he is to do by the Delivery Date. The defined term "Delivery" is used in this contract to identify when a stage, or amount of work has been achieved. This may be more than the common meaning of "delivery" and could include the passing of specified tests, provision of documentation and packing and preparation for air freight or shipping to the *Purchaser's* nominated Delivery Place specified in the Supply Requirements.

Either list here what has to be done in order to constitute "Delivery", or list what may remain undone and be completed after the Delivery Date by stating that everything else must be done before Delivery.

## Marking the *goods*

If this contract requires the *goods* be paid for before they are brought within the Delivery Place, core clause 71.1 requires that the Goods Information state how the *Supplier* is to "mark" the *goods*

### Constraints at the delivery place and place of use

State any constraints on how the *Supplier* is to provide the *goods* and *services* both at the delivery place and where the *goods* and *services* are to be put into use, e. g. restriction on access, hours of working and sequence of work. Sites such as Sasol Secunda and Koeberg Nuclear Power Station have very strict entrance requirements which tenderers need to allow for in their prices, and the *Supplier* has to comply with. State these or similar requirements here.

### Cooperating with Others

Although not a direct requirement of the *conditions of contract* if the *Purchaser* is aware of the *Supplier's* need to co-operate with Others (for example where the supply is to one of the *Purchaser's* contractor's on a project or design of the *goods* needs to be discussed with Others) details could be given here.

### Services & other things to be provided by the *Purchaser* or *Supplier*

Clause 23.2 requires that the Goods Information state what services and other things are to be provided by the Parties, each to the other as part of the supply process. This has nothing to do with the *services* identified in the Contract Data. It would include temporary services and things needed to facilitate the supply, such as cranes provided by the *Purchaser* for offloading of the *goods*.

### Management meetings

The *conditions of contract* (e.g. Clause 16.2) require and other sections of the Goods Information (e.g. safety risk management) may require (mandate) that a meeting shall be held. However the intention of all NEC contracts is that the Parties and their agents use the techniques of partnering to manage the contract by holding meetings designed to pro actively and jointly manage the administration of the contract with the objective of minimising the adverse effects of risks and surprises for both Parties.

Depending on the complexity of the *goods*, it is probably beneficial for the *Supply Manager* to hold a regular risk register meeting (Clause 16.2). This could be used to discuss safety, compensation events, subcontracting, overall co-ordination and other matters of a general nature. Separate meetings for specialist activities such as programming, engineering and design management, may also be warranted.

Describe here the general meetings and their purpose. Provide particulars of approximate times, days, location, and attendance requirements, stipulating that attendees shall have the necessary delegated authority to make decisions in respect of matters raised at such meetings.

The right to hold specialist meetings should be stated generically and in such a way that ambiguity with other parts of the Goods Information is avoided.

The following text could be used as a model for this section:

Regular meetings of a general nature may be convened and chaired by the *Supply Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk register and compensation events	Weekly on _____ at _____		
Overall contract progress and feedback	Monthly on _____ at _____		<i>Purchaser, Supplier, and _____</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Goods Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the manufacture of the *goods*. Records of these meetings shall be submitted to the *Supply 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.

### Documentation control

Specify how documentation will be identified with an alpha numeric which indicates source, recipient, communication number etc. Provide details of any particular format or other constraints; for example that all contractual communications will be in the form of properly compiled letters or forms attached to e mails and not as a message in the e mail itself. State any particular routing requirements but note from SC who issues what to whom.

### Health and safety risk management

In addition to the requirements of the laws governing health and safety, the *Purchaser* may have some additional requirements particular to the *goods* and the location where they are to be delivered for this contract. This is a requirement of clause 25.4.

The *Supplier* shall comply with the health and safety requirements [stated here or contained in Annexure \_\_\_\_\_ to this Goods Information].

### Environmental constraints and management

Describe or cross refer to environmental constraints applicable to the *Supplier's* design of the *goods* if not already included in the *Purchaser's* URS.

The *Supplier* shall comply with the environmental criteria and constraints [stated here or contained in Annexure \_\_\_\_\_ ]

### Quality

Specify minimum requirements for the *Supplier's* Quality Plan and Work Procedures if required and not already covered in the specifications for the *goods*. State whether ISO compliance is a condition and if so which ISO standard shall apply.

### Invoicing and payment

List the information that is to be shown by the *Supplier* on his invoices. State any other requirements relating to payment. For example:

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

The *Supplier* shall address the tax invoice to *Purchaser* and include on each invoice the following information:

- Name and address of the *Supplier* and the *Supply Manager*;
- The contract number and title;
- *Supplier's* VAT registration number;
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule;
- 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)

### Insurance provided by the *Purchaser*

First read SC3 Core Clause 84.1 and then add anything necessary for the management of insurance related issues such as a cross reference to where procedures for making claims can be found. Also provide contact details for persons capable of being able to answer any insurance related queries the *Supplier* may have, as well as to whom the information required by any Marine Insurance may be addressed.

### Contract change management

This section is intended to deal with any additional requirements to the compensation event clauses in section 6 of the core clauses; such as the use of standard forms. Not the same thing as documentation control.

### Provision of bonds and guarantees

The form in which a bond or guarantee required by the *conditions of contract* (if any) is to be provided by the *Supplier* is given in Part 1 Agreements and Contract Data, document C1.3, Sureties.

The *Purchaser* may withhold payment of amounts due to the *Supplier* until the bond or guarantee required in terms of this contract has been received and accepted by the person notified to the *Supplier* by the *Supply Manager* to receive and accept such bond or guarantee. Such withholding of payment due to the *Supplier* does not affect the *Purchaser's* right to termination stated in this contract.

### Records of Defined Cost, payments & assessments of compensation events to be kept by the *Supplier*

Read clause 63.2 and 11.2(4) and then state whether the *Supplier* is required to keep any records of Defined Cost. Include any other constraint which may be required in regard to format and filing of the records, and whether access for the *Supply Manager* shall be provided in hard copy or electronically.

## Procurement Subcontracting

### Preferred subcontractors

SC does not make use of nominated subcontracting, but the *Purchaser* may list which subcontractors or sub-suppliers the *Supplier* is required to enter into subcontracts with (if any). This is usually only required where plant and materials need to be obtained from a particular supplier or group of suppliers in order to comply with operational standards for the *goods*.

### Limitations on subcontracting

The *Purchaser* may require that the *Supplier* must subcontract certain specialised work, or that the *Supplier* shall not subcontract more than a specified proportion of the whole of the contract.

### Spares and consumables

Some contracts may need to include provision for the supply of a minimum category of spares, fuel, oil or other consumables which the *Purchaser* may need at or just after delivery or commissioning of the *goods* and that it is best the *Supplier* provide these initially as part of his Providing the Goods and Services

**Other requirements related to procurement**

Other requirements such as ASGISA or socio political enhancements the *Supplier* is to provide as part of Providing the Goods and Services (if any) could be included here.

**Cataloguing requirements by the *Supplier***

State whether cataloguing is applicable, if it is, reference the requirements for cataloguing that need to be satisfied by the *Supplier* (consult Procurement Instruction Number 1 of 2018 – Incorporating Cataloguing into the Procurement Environment, Unique Identifier 240-1289988974).

**List of drawings**

**Drawings issued by the *Purchaser***

This is the list of drawings issued by the *Purchaser* at or before the Contract Date and which apply to this contract.

Drawing number	Revision	Title

## C3.2 *SUPPLIER'S* GOODS INFORMATION

This section of the Goods Information will always be contract specific depending on the nature of the *goods* and *services*.

It is most likely to be required for supply contracts where the tendering supplier will have proposed specifications and schedules for the *goods* and *services*, which once accepted by the *Purchaser* prior to award of contract now become obligations of the *Supplier* per core clause 20.1.

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