



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**

Contents:	No of pages
Part C1 Agreements & Contract Data	[•]
Part C2 Pricing Data	[•]
Part C3 Scope of Work	[•]

CONTRACT No. [Insert at award stage]

PART C1: AGREEMENTS & CONTRACT DATA

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

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	R [●]
	Value Added Tax @ 15% is	R [●]
	The offered total of the amount due inclusive of VAT is ¹	R [●]
	(in words) [●]	

This Offer may be accepted by the 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

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

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)

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

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	General	
	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: Additional conditions of contract
	of the NEC3 Supply Contract (April 2013) ²	(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):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	[•]
	Fax No.	[•]
10.1	The <i>Supply Manager</i> is (name):	[•] M C Khoza

² Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902, www.ecs.co.za.

	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	The Supplier's main responsibilities	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	Time		
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:	<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.	
4	Testing and defects		
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 [•]
5	Payment	
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	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 (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.
6	Compensation events	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
7	Title	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 defects date is limited to:	R[●] [This is a commercial decision, but consider using the total of the Prices. Delete this note after inserting a Rand amount]
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[●] [This is a commercial decision, but consider using at least the total of the Prices. Delete this note after inserting the Rand amount]
88.5	The end of liability date is	[●] years after Delivery of the whole of the goods and services.
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 www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
	Address	[●]
	Tel No.	[●]
	Fax No.	[●]
	e-mail	[●]
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 www.ice-sa.org.za)
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

94.4(5)	The place where arbitration is to be held is The person or organisation who will choose an arbitrator - if the Parties cannot agree a choice or - if the arbitration procedure does not state who selects an arbitrator, is	Arbitrators (Southern Africa) or its successor body. [•] South Africa the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.
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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	Index prepared by
		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			

X20.2	Performance Indicators is in A report of performance against each Key Performance Indicator is provided at intervals of	Annexure [●] to this Contract Data [●] 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,

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

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

- Corrupt Action** means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,
- Fraudulent Action** means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,
- Obstructive Action** means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and
- Prohibited Action** means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

- 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:

- Insurance cover 84**
- 84.1** When requested by a Party, the other Party provides certificates from his insurer or broker stating that the insurances required by this contract are in force.
- 84.2** The *Supplier* provides the insurances stated in the Insurance Table A for events which are at the *Supplier's* risk from the *starting date* until the last *defects date* or a termination certificate has been issued.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minimum limit of indemnity
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	<u>Loss of or damage to property</u> <u>Purchaser's property</u> 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. <u>Other property</u> The replacement cost <u>Death of or bodily injury</u> 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

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

Nuclear Material Damage Terrorism	Per the insurance policy document
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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:

AAIA	means approved asbestos inspection authority.
ACM	means asbestos containing materials.
AL	means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4 hour period. The value at which proactive actions is required in order to control asbestos exposure to prevent exceeding the OEL.
Ambient Air	means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
Compliance Monitoring	means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's

requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.

Standard means the *Purchaser's* Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.

SANAS means the South African National Accreditation System.

TWA means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

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 2010³ 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

³ 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].

1. The requirements for the supply are	[State the constraints on how the <i>Supplier</i> manufactures, prototypes, tests and stores the <i>goods</i> including order and timing]	
2. The requirements for transport are	[State the extent to which the <i>Supplier</i> transports the <i>goods</i> and the mode of transport]	
3. The delivery place is	[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]	
4. Actions of the Parties during supply	Action	Party which does it
	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>	
For international procurement	Undertake export requirements	
	Undertake import requirements	
5. Information to be provided by the <i>Supplier</i>	Title of document	
	Packing lists for cases and their contents	
	Copy of invoice for the <i>goods</i>	
	Delivery Note	
	Test results and maintenance manuals	
For international procurement	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)⁴ and the relevant parts of its Guidance Notes (SC3-GN)⁵ 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 and 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	[•]									

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

⁵ Available from Engineering Contract Strategies Tel 011 803 3008, Fax 086 539 1902, or www.ecs.co.za

31.1	The programme identified in the Contract Data is contained in:	
63.2	The <i>percentage for overheads and profit</i> 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:

Identified and defined terms	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.
Assessing the amount due	50.2	The amount due is • the Price for each lump sum item in the Price Schedule which the <i>Supplier</i> has completed, • 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, • plus other amounts to be paid to the <i>Supplier</i>, • less amounts to be paid by or retained from the <i>Supplier</i>. 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		2	
2.	125554	BASE, RELAY: TYPE: 8 PIN; POTENTIAL: 48 V; REFERENCE NO: K248V7600OHMT18000; CONFIGURATION WEDGE, CONNECTION SOLDER, FOR USE ON TELEPHONE EMERGENCY HOOTER CIRCUITS	EA		2	
3.	137455	BRUSH, ELECTRICAL: TYPE: AC GENERATOR; WIDTH: 32 MM; LENGTH: 64 MM; THICKNESS: 20 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 125 MM; MATERIAL: CARBON; GRADE: RE634; SUPPL P/N: 1299/7B; DRAWING NO: 01-1561-00/120 REV 1; FOR USE ON TURBINE GENERATOR VOLTAGE MONITORING MODIFIED BRUSHGEAR; PER SET: 1	EA		152	
4.	137695	BRUSH, ELECTRICAL: TYPE: DC MOTOR DRIVE; WIDTH: 16 MM; LENGTH: 40 MM; THICKNESS: 12 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 41 MM; MATERIAL: CARBON; 1 PER SET, ICG NO-2 DC	EA		15	
5.	140101	BRUSH, ELECTRICAL: TYPE: DC PUMP MOTOR; WIDTH: 16 MM; LENGTH: 32 MM; THICKNESS: 8 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 50 MM; MATERIAL: CARBON; SUPPL P/N: 1299/15; DRAWING NO: 01-0700-01/65 REV 1; PLANT/MACHINE: UNIT DIESEL GENERATOR OIL PUMP MOTOR; RATING 0.8KW; GRADE RE28; PER SET: 1	EA		47	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
6.	137734	BRUSH, ELECTRICAL: TYPE: DC PUMP MOTOR; WIDTH: 20 MM; LENGTH: 32 MM; THICKNESS: 12 MM; CONNECTION: FLEXIBLE SHUNT CABLE LG 62 MM; MATERIAL: CARBON; GRADE: RE59; DRAWING NO: 01-1192-01/60 REV 1; REFERENCE NO: 1299/14; FOR USE ON E.F.P/DC. LUB OIL PUMP MOTOR 6,9KW; PER SET: 1.	EA		23	
7.	251362	BRUSH, ELECTRICAL: TYPE: EARTHING CIRCUIT; WIDTH: 32 MM; LENGTH: 64 MM; THICKNESS: 20 MM; MATERIAL: GRAPHITE/SILVER; GRADE: SM9173; SUPPL P/N: EARTH012; DRAWING NO: 012 REV 1; AC GENERATOR, 125 MM LG FLEXIBLE SHUNT CABLE	EA		18	
8.	135670	BUSHING, ELECTRICAL CONDUCTOR: TYPE: LOW VOLTAGE; POTENTIAL: 1.1 KV; CURRENT: 220 A; REFERENCE NO: R350; TRANSFORMER	EA		2	
9.	119286	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 30 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1-G3	EA		102	
10.	119289	BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 20 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: CF3G3	EA		3	
11.	119292	BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 15 A; POLE: 1; FRAME: S; 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	EA		18	
12.	119477	BREAKER, CIRCUIT: POTENTIAL: 220/380 VAC; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		CAPACITY: 6 KA; REFERENCE NO: FAZ			7	
13.	119820	BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 60 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF3-G3;	EA		8	
14.	119849	BREAKER, CIRCUIT: POTENTIAL: 380 VAC; CURRENT: 25 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 3VE3000-2NA00	EA		15	
15.	120046	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 2 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF1G3V	EA		7	
16.	120057	BREAKER, CIRCUIT: POTENTIAL: 550 VAC; CURRENT: 150 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; REFERENCE NO: NF250CS-150AMP (NEW);	EA		13	
17.	120059	BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; INTERRUPT CAPACITY: 4 KA; REFERENCE NO: S212K-6A; WITH AUXILIARY CONTACTS 1NO AND 1NC,	EA		7	
18.	120064	BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 20 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA	EA		95	
19.	218934	DETECTOR, RESISTANCE TEMPERATURE: TYPE: PT100; TEMPERATURE RATING: 0-80 DEG C; RESISTANCE: 100 OHM; WIRE: 3; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; SUPPL P/N: 6.0B300FS4KH2P; ELEMENT SIZE 6MM DIA X 300MM LG, SPRING LOADED, CERAMIC HEAD, NO HEAD AMPLIFIER INSTRUMENT	EA		2	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
20.	157684	CLEANER: TYPE: CONTACT ANTI RUST; FORM: AEROSOL; CONTAINER: CAN 500 G; COMPOUND FOR SWITCHES, CONTACT AND BREAKERS; PACKED 12 PER BOX; REQUIRED THE NEW STANDARD FOR RELIABILITY; MATERIAL SAFETY DATA SHEET POINT 1 TO 16	EA		340	
21.	128172	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/440 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 62 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N65-220; 30KW; ENCLOSURE: GENERAL PURPOSE	EA		12	
22.	142541	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380 VAC; CURRENT: 50 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N50CX-400; 22KW; WITH COIL; ENCLOSURE: GENERAL PURPOSE	EA		33	
23.	128269	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 350 A; POLE: 3; ENCLOSURE RATING: GENERAL PURPOSE; CONTACT ARRANGEMENT: 1NO 1NC; REFERENCE NO: 910-338-071-00; LS247; 380VAC; 132KW; TWO SETS OF AUXILIARY CONTACT; FOR USE ON PRECIP RECTIFIER PANELS	EA		42	
24.	143218	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 220/240/380/440/500/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 75 A; POLE: 3; ENCLOSURE RATING: GENERAL	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		PURPOSE; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: SK-80; 37 KILOWATT			3	
25.	126367	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 200 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: S-C150; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		7	
26.	157568	CLEANER: TYPE: CONTACT; FORM: AEROSOL COMPOUND; CONTAINER: CAN 454 G; DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY;	EA		78	
27.	157569	CLEANER: TYPE: CONTACT; FORM: SPRAY AEROSOL; CONTAINER: CAN 454 G; MANUF P/N: MS-538; RE-NU AND LUBE; DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY	EA		425	
28.	159844	CLEANER: TYPE: GENERAL PURPOSE; FORM: FOAM AEROSOL; CONTAINER: CAN 300 G; SPRAY ON/WIPE OFF; INDUSTRIAL STRENGTH	EA		47	
29.	666380	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 4 A; POTENTIAL: 230 V; MATERIAL: PLASTIC; MANUF P/N: CAL4-11	EA		3	
30.	666386	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 2NO 2NC; CURRENT: 4 A; POTENTIAL: 230 V; MATERIAL: PLASTIC; MANUF P/N: CAL19-11	EA		7	
31.	666388	CONTACT, AUXILIARY: TYPE: MOTOR CONTROL; CONTACT ARRANGEMENT: 3NO 1NC; CURRENT: 4 A; POTENTIAL: 230	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		V; MATERIAL: PLASTIC; MANUF P/N: CAL19-11B			30	
32.	143194	CONTACTOR: COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 1NO; SUPPL P/N: CA3-12; REFERENCE NO: CA3-12-220V50-10	EA		7	
33.	128296	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 6 A; POLE: 4; REFERENCE NO: 910-332-164-00; LS02; AUXILLIARY RELAY; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		3	
34.	128295	CONTACTOR: TYPE: CONTROL; LINE VOLTAGE: 110/660 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 16 A; POLE: 8; CONTACT ARRANGEMENT: 6NO 2NC; REFERENCE NO: 910-302-597-00; SH8-62E; AUXILLIARY RELAY; ENCLOSURE: GENERAL PURPOSE	EA		10	
35.	664492	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 190 A; POLE: 3; MANUF P/N: AF190	EA		13	
36.	664494	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 265 A; POLE: 3; MANUF P/N: AF265	EA		20	
37.	664490	CONTACTOR: TYPE: MOTOR CONTROL; LINE VOLTAGE: 380 V; COIL VOLTAGE: 230 V; CURRENT: 96 A; POLE: 3; MANUF P/N: AF96	EA		5	
38.	128187	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 115/660 VAC; COIL VOLTAGE: 220 VDC; CURRENT: 35 A; POLE: 3; REFERENCE NO: DIL0-11; 7.5KW; 380VAC; COMPLETE WITH 220VAC COIL; ENCLOSURE: GENERAL PURPOSEEV; 3PHSE	EA		2	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
39.	126968	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 80 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: 3ZX1012-0RT03-1AA1; RATED OPERATIONAL CURRENT AT 380V: 32A; RATED OUTPUT AT 380V: 15KW; ENCLOSURE: GENERAL PURPOSE	EA		2	
40.	128297	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 110 VAC; CURRENT: 32 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; REFERENCE NO: LS1722E; E910-302-677-88; ENCLOSURE: GENERAL PURPOSE; 3PHSE	EA		2	
41.	143233	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 220/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 25 A; POLE: 2; REFERENCE NO: LC2-D099M; FORWARD AND REVERSE; 4KW; ENCLOSURE: GENERAL PURPOSE	EA		3	
42.	143195	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 230/600 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 20 A; POLE: 3; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: CA3-16-220VAC10; ENCLOSURE: GENERAL PURPOSE	EA		3	
43.	142538	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/440 VAC; COIL VOLTAGE: 220 V; CURRENT: 22 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; MAXIMUM CURRENT RATING: 32 A; SUPPL P/N: S-N21; 11KW; WITH COIL; ENCLOSURE: GENERAL PURPOSE	EA		7	
44.	142539	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/500 VAC; COIL VOLTAGE: 220 VAC; CURRENT: 30 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC;	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		SUPPL P/N: S-N25-220; 15KW; ENCLOSURE: GENERAL PURPOSE			37	
45.	142540	CONTACTOR: TYPE: MOTOR; LINE VOLTAGE: 380/500 VAC; CURRENT: 40 A; POLE: 3; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: S-N35CX-400; 18.5KW; WITHOUT COIL; ENCLOSURE: GENERAL PURPOSE	EA		22	
46.	669981	CONTROLLER: TYPE: LIFT DOOR DRIVE; RANGE: -15 TO 50 DEG C; RATING: 80 W; APPLICATION: OUTPUT: 0-24 V; MOUNTING: SCREW; INPUT: 24 VAC; MANUF P/N: 903510G015-L; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		13	
47.	671215	CONTROLLER: TYPE: LIFT LCB2 BOARD; RANGE: -15 TO 50 DEG C; RATING: 110 V; APPLICATION: MANUF P/N: GGA21240D-1; POWER SOUCE 51 KW; DIMENSIONS WD 220 X LG 240 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		12	
48.	666028	CONTROLLER: TYPE: LIFTING CAR; RANGE: 0-128 H2 FREQUENCY; RATING: 180-265 V 3.1 A INPUT; APPLICATION: ELEVATOR LIFT CAR; OUTPUT: 3 A; MOUNTING: BOLTED; INPUT: AC; SUPPL P/N: GBA24350BH 1; SEMICONDUCTOR CONVERTER: TYPE: DCSS5-E, PART NO: GBA2435DBH1IP20 PROTECTION; INPUT = 1 PHASE AC 180-265 VAC 3.1 MAX AMPS 3 PHASES OUTPUT; 0-128 H2 OUTPUT; 3 A MAX OUTPUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT	EA		3	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
49.	144704	CORD, ELECTRICAL: TYPE: EXPANDA; SUPPL P/N: 332825-5025; REFERENCE NO: IK545B; (4) STRANDED COPPER CONDUCTOR SIZE 2.5MM SQUARE, PVC CONDUCTOR INSULATION, SPECIAL RUBBER COVERING, COMPLETE WITH RUBBER MOULD-ON PLUGS ON EACH END, 90 DEGREE CR-49 14/4 TYPE SO, "EPM" INSULATED WITH "HYTREL"SHEATH COILED RETRACTA-FLEX,CONSTRUCTED IN LEFT HAND COILED FORM,COMPLETE WITH MALE AND FEMALE COUPLINGS	EA		102	
50.	177377	COMPRESSOR, AIR: CAPACITY: 20 KV; DISCHARGE PRESSURE: 250 BAR; POTENTIAL: 380 VAC; POWER: 15 KW; SUPPL P/N: SVC 600/250; 3PH, PISTON DISPLACEMENT: 755 1/MIN, FREE AIR DELIVERY: 585 1/MIN, STAGES: 4, CYLINDER: 4, ELECTRIC MOTOR: REVOLUTIONS: 1450 MIN, WEIGHT: 440 KG, LENGTH: 1205 MM, WIDTH: 890 MM, HEIGHT: 925 MM, OIL CAPACITY: 9,51; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		8	
51.	571057	COMPRESSOR, AIR: CAPACITY: 52.36 M3/MIN; DISCHARGE PRESSURE: 760 KPA; POTENTIAL: 3.3 KVDC; POWER: 300 KW; CURRENT: 58 A; DRIVER: MOTOR; REFERENCE NO: C400; DISCHARGE PRESSURE 760 KPA; INTAKE TEMPERATURE 35 DEG CELSIUS; INLET	EA		10	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		PRESSURE 0.830 (ABSOLUTE); COUPLING POWER 300KW; HUMIDITY 60%; ROTATING SPEED 2975 RPM; CW TEMPERATURE 27 DEG C; CW FLOW 460 LITRE/MIN; S17200 PLC TO CONTROL COMPRESSOR DRYER AND COOLING WATER PUMPS; 2 X 380 V COOLING WATER PUMPS INCLUDING GALVANISED CARBON STEEL WATER PIPES; INTAKE AND DISCHARGE GALVANIZED CARBON STEEL PIPEWORK FOR THE COMPRESSOR WITH COMPLETE INTAKE FILTER EQUIPMENT WITH DIFFERENTIAL PRESSURE MONITORING; SERVICE TOOL TO ENABLE UNLIMITED FAULT FINDING ON THE COMPRESSOR; A CT TO BE CONNECTED ON ON PHASE OF POWER CABLE TO CATER FOR 1 AMP INSTEAD OF 5 AMPS; ALL POWER CABLES (COMPRESSOR, PUMPS, SWITCH GEAR TO COMPRESSOR ROOM); COOLING WATER FLOW AND TEMPERATURE TRANSMITTERS; COOLING WATER TEMPERATURE AND PRESSURE GAUGES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
52.	214724	COMPRESSOR, REFRIGERATION: TYPE: CARRIER; CAPACITY: 25 HP; SUPPL P/N: 06EX250660; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		7	
53.	214725	COMPRESSOR, REFRIGERATION: TYPE: CARRIER; CAPACITY: 35 HP; SUPPL P/N: 06EX275660; VENDORS ARE	EA			

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).			3	
54.	595726	COMPRESSOR, REFRIGERATION: TYPE: RECIPROCATING; CAPACITY: 1/5 HP; DRIVER: ELECTRIC MOTOR; RATING: 150 W 50 HZ; REFRIGERANT R1349; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		2	
55.	579236	COMPRESSOR, REFRIGERATION: TYPE: ROTARY; CAPACITY: 24000 BTU; RATING: 220 VAC; TO BE DELIVERED COMPLETE WITH STARTING CAPACITOR; THERMO-PROTECTOR; MOUNTING RUBBERS; THE BTU-SIZE MUST BE 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		3	
56.	052334	CONE: DIMENSIONS: LG 91 MM; MATERIAL: STL; SUPPL P/N: 908904-0032; 341607-1128; REFERENCE NO: 393371-1032; COMPLETE WITH NYLAFLOW TUBING LENGTH 91CM; KNOB; FOR SOOTBLOWER TYPE IK 545B; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		60	
57.	0119171	FUSE, CARTRIDGE: CURRENT: 0.5 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG	EA		333	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		20 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193				
58.	0004509	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 415 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: NS10A; FUSE, CARTRIDGE; CURRENT 10 A, POTENTIAL 415 V, DIMENSIONS DIA 14 X LG 60 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS10A FUSE,CARTD;NS10A,10 A,415 V,BLADE KNIFE; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		217	
59.	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	EA		10	
60.	0118324	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: PORCELAIN; SUPPL P/N: NFC 63210; REFERENCE NO: 133.10; PULLCAP, NORMAL CEI2692	EA		2	
61.	0118148	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 13 X LG 50 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; REFERENCE NO:	EA		8	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		5SB25; 5SA151; DIAZED				
62.	0118146	FUSE, CARTRIDGE: CURRENT: 10 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 13 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT10; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		317	
63.	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	EA		25	
64.	0117234	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26 X LG 110 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 2692; IEC 282-1; SUPPL P/N: TCP100	EA		70	
65.	0669497	FUSE, CARTRIDGE: CURRENT: 100 A; POTENTIAL: 690 VAC; CONNECTION TYPE: PUSH IN; DIMENSIONS: DIA 22 X LG 58 MM; INTERRUPT CAPACITY: 200 KA; TYPE: HIGH SPEED; CASE MATERIAL: CERAMIC; MANUF P/N: 492140; GR CYLINDRICAL FUSE WITH STRIKER	EA		10	
66.	017307	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	EA		157	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3				
67.	0004510	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 50 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS16	EA		333	
68.	0117359	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 415 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 55 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT16; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		258	
69.	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	EA		433	
70.	0212135	FUSE, CARTRIDGE: CURRENT: 16 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; TYPE: ULTRA FAST LINK; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SD420; SILIZED, FOR SEMICONDUCTOR PROTECTION ON MILL FEEDERS UNIT 1, THREAD E27	EA		8	
71.		FUSE, CARTRIDGE: CURRENT: 160 A; POTENTIAL: 550 V; CONNECTION TYPE:	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117367	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			170	
72.	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	EA		2 707	
73.	0117144	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 19232; 601-030	EA		57	
74.	0118308	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.3 X LG 32 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: BP1167583	EA		33	
75.	0118437	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 412- 403	EA		17	
76.	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,	EA		33	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		TIME DELAY, MARKING GL/GG				
77.	0234983	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: GENERAL PURPOSE; CASE MATERIAL: CERAMIC; REFERENCE NO: GI10 2; ORDER NUMBER D94 234, WITHOUT TRIP INDICATOR	EA		53	
78.	0004527	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 240 V; CONNECTION TYPE: BLADE KNIFE TAGS; DIMENSIONS: DIA 12 X LG 47 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS20; FUSE, CARTRIDGE; CURRENT 20 A, POTENTIAL 240 V, DIMENSIONS DIA 12 X LG 47 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE TAGS, PART NUMBER: SS20~FUSE,CARTD;SS20,20 A,240 V,CERAMIC	EA		7	
79.	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	EA		513	
80.		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	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117226	LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: NS20~FUSE, CARTD; NS20,20 A,415 VAC, CERAMIC; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			20	
81.	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	EA		150	
82.	0118329	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 38 MM; TYPE: INSTANTANEOUS ONE TIME REJECTION; CASE MATERIAL: CERAMIC; NORMAL OPERATING, 10 MM DIA HOLE	EA		13	
83.	0118785	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 25 X LG 127 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: B1-20; 50-7000-01; TBC20; HRC, 80, WITH 2 FIXING HOLES, OR APPROVED EQUIVALENT BRAND	EA		73	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
84.	0118156	FUSE, CARTRIDGE: CURRENT: 20 A; POTENTIAL: 600 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 10 X LG 80 MM; TYPE: FAST BLOW INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: CIA20; BLOW HOLE IN LABEL, NORMAL INSTANTANEOUS	EA		17	
85.	0117236	FUSE, CARTRIDGE: CURRENT: 200 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 40 X LG 135 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TF200	EA		325	
86.	0117317	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 240-450 V; CONNECTION TYPE: SCREW CLAMP OFFSET TAGS; DIMENSIONS: DIA 16 X LG 41 MM; TYPE: SEMICONDUCTOR; CASE MATERIAL: CERAMIC; SUPPL P/N: GSA25		EA	2	
87.	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	EA		60	
88.	0119077	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: SLO BLO, VISUAL INDICATING; CASE MATERIAL: GLASS; REFERENCE	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		NO: HSS06247;			50	
89.	0118303	FUSE, CARTRIDGE: CURRENT: 250 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; SUPPL P/N: 5 X 20	EA		1 083	
90.	0118287	USE, CARTRIDGE: CURRENT: 300 A; POTENTIAL: 500 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 58 X LG 150 MM; TYPE: INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: 3NA3250	EA		115	
91.	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	EA		30	
92.	0117310	FUSE, CARTRIDGE: CURRENT: 315 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 41 X LG 159 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TKM315; REFERENCE NO: 50 011 01; DUTY 80, CLASS Q1, WITH FIXING HOLES	EA		53	
93.		FUSE, CARTRIDGE: CURRENT: 32 A;	EA			

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

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		HRCFUSE BODY LENGTH: 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A2			150	
97.	0119179	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 500 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 12 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT32; TAG TYPE, ONE SIDE, TWO HOLES	EA		325	
98.	0118163	FUSE, CARTRIDGE: CURRENT: 32 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 22 X LG 130 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: 5000701-32; B1-32; HRC, WITH SCREW CLAMP, 2 HOLES FIXING, CLASS GG/Q1, TYPE TBC, DISTANCE BETWEEN HOLES, CTC 111MM , OUTSIDE OF BODY 25MM	EA		257	
99.	0117521	FUSE, CARTRIDGE: CURRENT: 35 A; POTENTIAL: 500 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 28 X LG 50 MM; TYPE: FAST BLOW DUAL ELEMENT TIME DELAY BOTTLE; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB311; DIAZED, FLINK	EA		12	
100.		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:	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0118456	CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TMT355; REFERENCE NO: 5010401-355; HRC, 4 HOLE FIXING, SIBA, CLASS GG/Q1			7	
101.	0117380	FUSE, CARTRIDGE: CURRENT: 355 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 60 X LG 206 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TM355	EA		28	
102.	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.	EA		5	
103.	0117216	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 13.9 X LG 50.8 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: SS4; FUSE, CARTRIDGE; CURRENT 4 A, POTENTIAL 240 VAC, DIMENSIONS DIA 13.9 X LG 50.8 MM, TYPE CURRENT LIMITING, CASE MATERIAL CERAMIC, CONNECTION TYPE BLADE KNIFE, PART NUMBER: SS4~FUSE,CARTD;SS4,4 A,240 VAC,BLADE KNIFE.	EA		495	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
104.	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.	EA		7	
105.	0117217	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 415 V; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 10 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: NIT4; NON INDICATING, ONE SIDE, TWO HOLES	EA		167	
106.	0117218	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 415 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14 X LG 60 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NS4; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		417	
107.	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	EA		17	
108.	0118214	FUSE, CARTRIDGE: CURRENT: 4 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X	EA		33	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		LG 38 MM; TYPE: SLO BLO; CASE MATERIAL: PORCELAIN; REFERENCE NO: GL; CURRENT LIMITING				
109.	0118168	FUSE, CARTRIDGE: CURRENT: 40 A; POTENTIAL: 415 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS40; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	EA		160	
110.	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	EA		17	
111.	0669484	FUSE, CARTRIDGE: CURRENT: 400 A; POTENTIAL: 50 V; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: WD 62 X LG 72 MM; INTERRUPT CAPACITY: 120 KA; TYPE: NH3; CASE MATERIAL: CERAMIC; REFERENCE NO: 383380; FUS190; DC SYSTEMS	EA		10	
112.		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	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117239	OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3			7	
113.	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	EA		13	
114.	0117231	FUSE, CARTRIDGE: CURRENT: 50 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 85 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TIS50; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		85	
115.	0669495	FUSE, CARTRIDGE: CURRENT: 500 A; POTENTIAL: 690 V; CONNECTION TYPE: M8 BOLT; DIMENSIONS: WD 51 X LG 51 X HT 50.6 MM; INTERRUPT CAPACITY: 200 KA; TYPE: SEMICONDUCTOR PROTECTION; MANUF P/N: 6.9URD31TTF0500; REFERENCE NO: FUS 185; TTF	EA		10	
116.		FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 240 VAC; CONNECTION TYPE: BLADE KNIFE; DIMENSIONS: DIA 14	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0004506	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			332	
117.	0118441	USE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 415 VAC; 250 VDC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 10 X LG 36 MM; TYPE: BOTTLE INDICATING; CASE MATERIAL: CERAMIC; SUPPL P/N: D01; REFERENCE NO: 5SE2006; NEOZED	EA		17	
118.	0117256	FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 500 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 50 MM; TYPE: BOTTLE FAST BLOW; CASE MATERIAL: CERAMIC; SUPPL P/N: 5SB131; DIAZED, FLINK	EA		35	
119.	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	EA		197	
120.		FUSE, CARTRIDGE: CURRENT: 6 A; POTENTIAL: 550 VAC; CONNECTION	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0117220	TYPE: SCREW CLAMP; DIMENSIONS: DIA 14 X LG 54 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: NIT6; ONE SIDE, TWO HOLES			433	
121.	0117303	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 415-550 VAC; CONNECTION TYPE: SCREW CLAMP CENTER TAGS; DIMENSIONS: DIA 26 X LG 128 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TBC63; 2 HOLES FIXING; 128 MM LONG BETWEEN HOLES	EA		50	
122.	0117212	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 550 VAC; CONNECTION TYPE: LUG AXIAL SCREW CLAMP; DIMENSIONS: DIA 25.2 X LG 113 MM; TYPE: INSTANTANEOUS; CASE MATERIAL: CERAMIC; REFERENCE NO: TB63; CURRENT LIMITING; NORMAL OPERATING, 7MM DIA HOLE, 96MM CENTRES, ONE TIME, NON INDICATING	EA		33	
123.	0118275	FUSE, CARTRIDGE: CURRENT: 63 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP TAG; DIMENSIONS: DIA 22.2 X LG 90.5 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88; SUPPL P/N: TIS63; ONE SIDE, TWO HOLES; FUSE BODY LENGTH: 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		167	
124.		FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 1 KV; CONNECTION TYPE:	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0118846	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			23	
125.	0118450	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 500 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 22 X LG 58 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; REFERENCE NO: A94668; PRONORM CAP END, WITH TRIP INDICATOR	EA		17	
126.	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	EA		38	
127.	0117233	FUSE, CARTRIDGE: CURRENT: 80 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 26.2 X LG 111 MM; INTERRUPT CAPACITY: 80 KA; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SPECIFICATION: BS 88 IEC 60269; SUPPL P/N: TCP80; OFF-SET TAGS 2-HOLE FIXING; FUSE BODY LENGTH: 58 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A4	EA		28	
128.	0119173	FUSE, CARTRIDGE: CURRENT: 800 MA; POTENTIAL: 250 VAC; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 5 X LG 20 MM; TYPE: FAST BLOW, ONE TIME REJECTION; CASE MATERIAL: GLASS; SUPPL P/N: 19193	EA		250	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
129.	0583377	FUSE: TYPE: HRC; CURRENT: 16 A; POTENTIAL: 550 VAC; CONNECTION: OFFSET TAG; DIMENSIONS: DIA 13.8 X LG 58.7 MM; MANUF P/N: NSD16	EA		133	
130.	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	EA		333	
131.	0119822	RELAY, OVERLOAD: TRIP RANGE: 0.32 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 3NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: BRACKET; CONTACT MATERIAL: SILVER PLTD; CIRCUIT BREAKER, TRIPLE POLE, 2.5-4AMPS, IC 6.3AMP, 300VAC, AUXILLIARY 3AMP, ENCLOSURE GENERAL PURPOSE	EA		2	
132.	0126371	RELAY, OVERLOAD: TRIP RANGE: 15-60 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-60A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT	EA		3	
133.	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	EA		2	
134.		RELAY, OVERLOAD: TRIP RANGE: 40-150 A; TYPE: THERMAL; CONTACT	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0126372	ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N150-150A-AC200V; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT			2	
135.	0126370	RELAY, OVERLOAD: TRIP RANGE: 5-20 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; SUPPL P/N: ET-N60-20A-AC200V; GENERAL PURPOSE ENCLOSURE; UNIVERSAL CONTACT	EA		3	
136.	0128283	RELAY, OVERLOAD: TRIP RANGE: 54-80 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: TH-K120(KP); ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT	EA		3	
137.	0128298	RELAY, OVERLOAD: TRIP RANGE: 8-12 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE CLAMP; MOUNT: PANEL; REFERENCE NO: 25400; E910-341-936-00; ENCLOSURE GENERAL PURPOSE; UNIVERSAL CONTACT	EA		2	
138.	0151565	RELAY, TIME DELAY: OPERATION: 0-12 MIN; ACTION: SPDT; COIL VOLTAGE: 220 VAC; TERMINAL: 8 PIN; MEDIUM: MOTOR; MODEL NO: H2C 8 SC AC220; LIMIT OPERATION/SELF RESETTING, ROUND SOCKET, COLOUR OF FRONT PANEL - RED	EA		2	
139.		RELAY, TIME DELAY: OPERATION: 1-20	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0151543	MIN; ACTION: DPDT; COIL VOLTAGE: 220 VAC; TERMINAL: 11 PIN; REFERENCE NO: DT310/2; TYPE CONTINUOUS CYCLE			2	
140.	0151542	RELAY, TIME DELAY: OPERATION: 1-20 S; ACTION: DPDT; COIL VOLTAGE: 220 VDC; TERMINAL: 11; SUPPL P/N: DT310-1; TYPE CONTINUOUS CYCLE	EA		2	
141.	0128213	DELAY: OPERATION: ON 0-12 S; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: 11 PIN; CONTACT RATING: 220 VAC; COIL VOLTAGE: 220 VAC; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC; SUPPL P/N: ST30B; 1X NO INSTANTANEOUS CONTACT AND 1 X NC WITH 12 SEC DELAY AFTER DE-ENERGISING	EA		148	
142.	0151551	RELAY, TIME DELAY: OPERATION: ON 220 S TO 240 MIN; ACTION: SPDT; COIL VOLTAGE: 24 VDC; TERMINAL: 11 PIN; REFERENCE NO: DT310/1; ENERGY, RANGE 100 TO 200, INUTES, INDEFINATE CLEAN AND DRY, ENERGISE	EA		2	
143.	0128278	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 3NO 3NC; CONTACT RATING: 220 VAC 5 A; ACTION: 3PDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK3P-5/I; 50 HZ	EA		32	
144.		RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0128211	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			175	
145.	0128538	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK2P-AC220; CLOSED TYPE	EA		12	
146.	0128212	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 4NO 4NC; CONTACT RATING: 110 VAC 10 A; ACTION: 4PDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: LY4-DC 24	EA		70	
147.	0128276	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 220 VAC 7.5 A; ACTION: DPDT; TERMINAL: 8 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER PLTD; SUPPL P/N: MK2P- DC 24; SOLDER TERMINALS, CLOSED TYPE	EA		2	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
148.	0128251	RELAY: TYPE: AUXILIARY OVERCURRENT; COIL VOLTAGE: 47 VDC; CONTACT ARRANGEMENT: 6NO; CONTACT RATING: 1 A; ACTION: SPDT; TERMINAL: 14 PIN PLUG IN; MOUNT: TERMINAL SOCKET; ENCLOSURE RATING: PLASTIC CLEAR; CONTACT MATERIAL: SILVER/NI/TIN PLTD; REFERENCE NO: VP6MAB47M; M TYPE WITH 1N4148 DIODE BETWEEN COIL TERMINALS, SOLDER, WITH 8BA EARTH SCREW, 1700 OHMS, DOUBLE CONTACTS ONLY	EA		23	
149.	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; FUNCTIONALITY; GENERATOR FULL INCL SENSITIVE REF AND 100 PCT STATOR EF	EA		3	
150.	0128164	RELAY: TYPE: INTERPOSING; COIL VOLTAGE: 22.5 VDC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: SPST; TERMINAL: CAPTIVE SCREW; MOUNT: REAR; ENCLOSURE RATING: PLASTIC; CONTACT MATERIAL: SILVER PLTD; REFERENCE NO: KR11	EA		50	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
151.	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	EA		2	
152.	0128123	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPDT; TERMINAL: 11 PIN PLUG IN; MOUNT: OCTAL SOCKET; ENCLOSURE RATING: PLASTIC; REFERENCE NO: 18VRMS; 300; VOLTAGE SENSITIVE, CONTACT UNIVERSAL	EA		2	
153.	0706265	RELAY, CONTROL: CONTACT RATING: 220 VAC 5 A; CONTACT ARRANGEMENT: NO NC; COIL VOLTAGE: 220 VAC; ACTION: 3P; MOUNT: BOLT ON; TERMINAL: SCREW; TYPE: MOTOR PROTECTION; MANUF P/N: 323M F 220 A 1 (FGHO); DATA SHEET TO BE PROVIDED	EA		13	
154.	0123242	RECEPTACLE, ELECTRICAL: TYPE: CONNECTOR BODY; POLE: 1; WIRE: 4; CAT NO: E50RA20; LIMIT SWITCHES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		2	
155.		RECEPTACLE, ELECTRICAL: TYPE: CONNECTOR BODY; POLE: 3; WIRE: 4; REFERENCE NO: E50SB; SWITCH BODY;	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
	0123283	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).			107	
156.	0138460	RECEPTACLE, ELECTRICAL: TYPE: SOCKET; POLE: 3; POTENTIAL: 220 VAC; CURRENT: 15 A; REFERENCE NO: 12410; TYPE SWITCH, CONNECTION SCREW, SWITCH PLUG COMBINATION, SINGLE, FLUSH MOUNTED, 4 X 4 INCH (100 X 100MM), COMPLETE WITH FACE PLATE AND SCREWS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		97	
157.	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).	EA		2 635	
158.	0124127	RECEPTACLE, ELECTRICAL: TYPE: WELDING; POLE: 1; WIRE: 1; CURRENT: 400 A; REFERENCE NO: 054-152; CABLE COUPLING CONNECTOR, FEMALE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			88	
159.	0124120	PLUG, ELECTRICAL: POLE: 3; WIRE: 3; POTENTIAL: 240 V; CURRENT: 16 A; SUPPL P/N: ABL17; TYPE WIRING DEVICE, MALE PLUG, CLOCK HOUR POSITION 6H, (2P+E), COMPLETE WITH GROMMET, 220-240V, IP44	EA		3	
160.	0156089	PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H11K; QUICK; MALE; FOR TYPE K THERMOCOUPLES; AMERICAN STD COLOUR CODING ONLY	EA		567	
161.	0156090	PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H20K; QUICK; FEMALE SOCKET; FOR TYPE K THERMOCOUPLES	EA		450	
162.	0123796	PLUG, ELECTRICAL: TYPE: TOP; POLE: 3; WIRE: 3; POTENTIAL: 250 VAC; CURRENT: 16 A; REFERENCE NO: PT/LX16A2P/PVCR; WIRING DEVICE; TO BE SECURED BY SCREWS AND NOT SNAPPED; SABS APPROVED; SCREWLESS CORD GRIP	EA		1 303	
163.	0124126	PLUG, ELECTRICAL: TYPE: WELDING; POLE: 1; WIRE: 1; CURRENT: 400 A; SUPPL P/N: 054-151; CABLE; MALE; QA17	EA		133	
164.	686962	SOLENOID, ELECTRICAL: DUTY TYPE: CONTROL VALVE; COIL VOLTAGE: 220 V; SUPPL P/N: RF-220V; HIGH FREQUENCY; ID 20 X OD 50 X LG 60 MM; CW SYSTEM AUTO CLOSING VALVE	EA		67	
165.	128883	SOLENOID, ELECTRICAL: DUTY TYPE:	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		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			2	
166.	677891	SOLENOID, ELECTRICAL: DUTY TYPE: OPEN/CLOSE; COIL VOLTAGE: 24 VDC; MANUF P/N: 507848; POWER RATING 30W	EA		3	
167.	126657	SOLENOID, ELECTRICAL: DUTY TYPE: VALVE; COIL VOLTAGE: 220 VAC; 24 VDC; SUPPL P/N: 212-A-03.0-B-MS; REFERENCE NO: FLNSCH-F-000; 043949FMLUR; 8 WATT; NOMINAL PRESSURE 0 TO 6 BAR	EA		3 683	
168.	130449	TRANSFORMER, DISTRIBUTION: TYPE: STEPDOWN; APPARENT POWER: 100 VA; POTENTIAL: 380/415-110/220-240 VAC; PHASE: 1; REFERENCE NO: 11G5CP; FOR USE ON HYDROGEN BOTTLING PLANT	EA		2	
169.	145218	WIRE, ELECTRICAL: TYPE: FLEXIBLE; SIZE: 2.5 MM2; COLOR: BLUE; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: SILICON; 100 METER PER ROLL, WITH SABS MARK OF APPROVAL ON EACH ROLL	M		3 178	
170.	602188	HEATER: TYPE: S03 PROCESS AIR; POTENTIAL: 380 V; POWER: 120 KW; DIMENSIONS: LG 2.1 M; MOUNTING METHOD: FLANGE; MANUF P/N: DSD-055; DRAWING NO: EJ0400/DUVHA/1/2 REV 0; REFERENCE NO: EJ400/D/120-2/75; FLANGE DIAMETER 250NB,PRESSURE-OPERATING 70KIPA; QTY OF BANKS	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		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			23	
171.	28349	GEAR, HELICAL: TEETH: 60; BORE: 9.5 MM; FACE WIDTH: 13 MM; MATERIAL: BAKELITE; REFERENCE NO: 392681-1120; WORM GEAR; FOR IR2 GUN BLOWER ON WALL BLOWERS; DIAMETRAL PITCH: 0.63; PITCH DIAMETER: 95.8MM	EA		17	
172.	123623	SWITCH, LIMIT: POTENTIAL: 600 VAC; CURRENT: 5 A; ACTION: DPDT; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 2NO 2NC; SUPPL P/N: DB2/53; REFERENCE NO: 847340-9028; FOR GUN TYPE BLOWER IR2	EA		283	
173.	0144704	CORD, ELECTRICAL: TYPE: EXPANDA; SUPPL P/N: 332825-5025; REFERENCE NO: IK545B; (4) STRANDED COPPER CONDUCTOR SIZE 2.5MM SQUARE, PVC CONDUCTOR INSULATION, SPECIAL RUBBER COVERING, COMPLETE WITH RUBBER MOULD-ON PLUGS ON EACH END, 90 DEGREE CR-49 14/4 TYPE SO, "EPM" INSULATED WITH "HYTREL"SHEATH COILED RETRACTA-	EA		102	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		FLEX,CONSTRUCTED IN LEFT HAND COILED FORM,COMPLETE WITH MALE AND FEMALE COUPLINGS				
174.	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 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	EA		7	
175.	0700959	BREAKER, CIRCUIT, LOW VOLTAGE: TYPE: C MOLDED CASE FRAME; CURRENT RATING: 250 A; POLES: 3; MOUNT: BASE; VOLTAGE PROTECTION LEVEL: 690 V; SHORT TIME CURRENT: 3 MS AT 10 KA; SERVICE SHORT CIRCUIT BREAKING CAPACITY: 40 KA; POLLUTION CLASS: III; ENCLOSURE RATING: 1; SPECIFICATION: SANS 156; APPLICATION: S03 HEATER PROTECTION; PROTECTION: INTERCHANGEABLE THERMAL-MAGNETIC; REFERENCE NO: JW3250F; 70-250 AMPS ADJUSTABLE CURRENT; SUPPLIER TO PROVIDE SPECIFICATION, TEST CERTIFICATE AND CORRECT DRAWINGS WITH A NUMBER	EA		8	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
176.	719294	COIL, ELECTRICAL: FUNCTION: FIRST SHUNT TRIP; POTENTIAL: 230-240 VDC; CURRENT: 1 A; USAGE DESIGN: 3.3KV AIS BREAKER; POWER: 140 W; MANUF P/N: 3AY1510-5F; DRAWING NO: 0.57/57713 REV 1; FIRST SHUNT TRIP COIL OR CLOSING SOLENOID; LATEST MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH ITEMS	EA		28	
177.	719295	COIL, ELECTRICAL: FUNCTION: SECOND SHUNT TRIP; POTENTIAL: 220-240 VDC; CURRENT: 0.5 A; USAGE DESIGN: 3.3 KV AIS BREAKER; POWER: 70 W; MANUF P/N: 3AX1101-2F; DRAWING NO: 0.57/57713 REV 1; BACKUP TRIP COIL; LATEST MATERIAL SAFETY DATASHEET TO BE SUPPLIED WITH ITEM	EA		28	
178.	0708638	HEATER, IMMERSION: TYPE: ELEMENT; DIMENSIONS: DIA 215 X 475 MM; POTENTIAL: 380 V; POWER: 18 KW; CURRENT: 50 A; FLANGED	EA		3	
179.	0136115	ROD: TYPE: SUSPENSION; DIMENSIONS: LG 11.22 M; MATERIAL: STL; REFERENCE NO: 393770-1021; FOR SOOTBLOWER TYPE IK 545B	EA		28	
180.	0053499	ELEMENT, HEATER: DIMENSIONS: DIA 3.4 MM X LG 21 M; TYPE: HOPPER; POTENTIAL: 230 VAC; POWER: 1.03 KW; MATERIAL: STAINLESS STEEL; TEMPERATURE RATING: 450 DEG C; REFERENCE NO: XSS5021; MINERAL INSULATED SHEATHED CABLE; GRADE 2.2; FOR UNITS 1 TO 3	EA		67	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
181.	669983	MODULE: TYPE: RS14 CALL PRINTS; INPUT: 0-24 V; OUTPUT: 24 V; APPLICATION: LIFT REMOTE STATION; DIMENSIONS: WD 39 X LG 66 MM; OEM P/N: GAA 25005 B10	EA		142	
182.	632995	SENSOR: TYPE: ELEVATOR LEVEL; RANGE: 90 DEG C; RATING: 1.1 KW AT 16 A; ELECTRICAL CONNECTION: PLUG; MOUNT: SCREW; DIMENSIONS: WD 40 X LG 350 X HT 255 MM; SUPPL P/N: GAA22439E12; COMPLETE PRS FOR SHAFT-GAA22439W12	EA		53	
183.	666028	CONTROLLER: TYPE: LIFTING CAR; RANGE: 0-128 H2 FREQUENCY; RATING: 180-265 V 3.1 A INPUT; APPLICATION: ELEVATOR LIFT CAR; OUTPUT: 3 A; MOUNTING: BOLTED; INPUT: AC; SUPPL P/N: GBA24350BH 1; SEMICONDUCTOR CONVERTER: TYPE: DCSS5-E, PART NO: GBA2435DBH1IP20 PROTECTION; INPUT = 1 PHASE AC 180-265 VAC 3.1 MAX AMPS 3 PHASES OUTPUT; 0-128 H2 OUTPUT; 3 A MAX OUTPUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA		3	
184.	669984	CONTROLLER, ELECTRONIC: TYPE: TOP LIFT CAR; POTENTIAL: 220 V; OUTPUT: 0- 265 V; INPUT: 180-265 V; MOUNTING: SCREW; CURRENT: 1.6-3 A; POWER: 265 W; MANUF P/N: GBA 24350 BH 3; PROTECTION IP20; FOR USE ON ADMIN BUILDING LIFT; TYPE DCSS5-E; WD 73 X LG 310 X THK 50MM	EA		2	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
185.	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	EA		8	
186.	0632995	SENSOR: TYPE: ELEVATOR LEVEL; RANGE: 90 DEG C; RATING: 1.1 KW AT 16 A; ELECTRICAL CONNECTION: PLUG; MOUNT: SCREW; DIMENSIONS: WD 40 X LG 350 X HT 255 MM; SUPPL P/N: GAA22439E12; COMPLETE PRS FOR SHAFT-GAA22439W12	EA		53	
187.	0648645	BREAKER, CIRCUIT: SWITCHGEAR DESIGN: AIR INSULATED; POTENTIAL: 12 KV; CURRENT: 800 A; SHORT TIME CURRENT: 31.5 KA; POLE: 3; CONTROL VOLTAGE: 220 VDC; POINT ON WAVE: NONE; CREEPAGE: 179 MM; BASIC INSULATION LEVEL: 28/75 KV; INSULATION MATERIAL: AIR; OPERATING CONTROL TYPE: VACUUM; POLLUTION CLASS: NORMAL; APPLICATION: PROTECTION DEVICE; MANUF P/N: 3AE1555-1	EA		23	
188.	0194331	SOLVENT: TYPE: ELECTRICAL CLEANER; CONTAINER: 25 L; SUPPL P/N: FO655; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; ENVIRO	L		1 283	
189.	0043118	COMPRESSOR, REFRIGERATION: TYPE: AIR CONDITIONING; RATING: 380 V;	EA			

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		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).			5	
190.	0117229	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 550 VAC; CONNECTION TYPE: SCREW CLAMP; DIMENSIONS: DIA 22 X LG 80 MM; TYPE: CURRENT LIMITING; CASE MATERIAL: CERAMIC; SUPPL P/N: TIA25; SUPPLIER NOTE, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED; BS 88 OR IEC 60 269 CERTIFIED; FUSE BODY LENGTH 56.4 MM; BREAKING RANGE AND UTILIZATION CATEGORY: GG; SIZE: A3	EA		17	
191.	0118677	FUSE, CARTRIDGE: CURRENT: 2 A; POTENTIAL: 250 V; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 6.4 X LG 32 MM; TYPE: FAST BLOW; CASE MATERIAL: GLASS; REFERENCE NO: 19232; 601-030	EA		10	
192.	120031	BREAKER, CIRCUIT: POTENTIAL: 380-660 VAC; CURRENT: 63 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; MOULDED CASE, COIL 220 VOLT AC	EA		5	
193.	0125496	RELAY, OVERLOAD: TRIP RANGE: 7-10 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; CONTACT MATERIAL: SILVER PLTD;	EA		2	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		REFERENCE NO: LR1D09-314				
194.	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	EA		8	
195.	0128074	RELAY, OVERLOAD: TRIP RANGE: 1.9-2.8 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: BAKELITE; UNIVERSAL CONTCT, 600V MAXIMUM 3 PHASE 25 TO 60 HZ TYPE	EA		5	
196.	0128139	RELAY, OVERLOAD: TRIP RANGE: 2.4-4 A; TYPE: THERMAL; CONTACT ARRANGEMENT: 1NO 1NC; RESET: AUTOMATIC/MANUAL; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: OPEN; APPLICATION: LANCE SOOTBLOWER; REFERENCE NO: TSA-45P	EA		5	
197.	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	EA		5	
198.	0128281	RELAY, OVERLOAD: TRIP RANGE: 1-1.6 A; TYPE: THERMAL; REFERENCE NO: CTA3-	EA		5	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		12; UNIVERSAL CONTACT				
199.	0128332	RELAY, TIME DELAY: OPERATION: ON 0.1-0.3 S; CONTACT ARRANGEMENT: 3NO 1NC; ACTION: SPDT; CONTACT RATING: 220 V; COIL VOLTAGE: 220 VDC; TERMINAL: CAPTIVE SCREW QUICK CONNECT; MOUNT: PANEL; CONTACT MATERIAL: AG PLTD; ENCLOSURE RATING: PLASTIC CLEAR; REFERENCE NO: AK513031; D5 PR5NKAHY; HESG442183F112; 22 KV CIRCUIT BREAKER	EA		5	
200.	0128334	CONTACTOR:CONTROL;220/660 VAC;240 VDC;20			3	
201.	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	EA		5	
202.	0156089	PLUG, ELECTRICAL: TYPE: THERMOCOUPLE; REFERENCE NO: H11K; QUICK; MALE; FOR TYPE K THERMOCOUPLES; AMERICAN STD COLOUR CODING ONLY	EA		567	
203.	0160594	WADER:FISHERMANS;8;PVC;GREEN OLIVE	PAA		3	
204.	0231111	FUSE, CARTRIDGE: CURRENT: 25 A; POTENTIAL: 12 KV; CONNECTION TYPE: FERRULE; DIMENSIONS: DIA 63.5 X LG 254 MM; CASE MATERIAL: CERAMIC; SUPPL P/N: 30 144 36; FOR AIR AND OIL INSULATED SWITCHGEAR, FITTED WITH	EA		5	

ITEM	MATERIAL NUMBER	DESCRIPTION	UNIT OF MEASURE	PRICE PER UNIT	QUANTITIY	TOTAL COST/5YRS
		STRIKER PIN INDICATOR				
205.	0589102	COMPRESSOR REFRGRTN:HERMETIC SCROLL;34.7	EA		5	
206.	0721893	INVERTER:DIP PROOF;4.5 KVA;230 VAC	EA		5	

The total of the Prices

C3.1: *PURCHASER'S* GOODS INFORMATION

Contents

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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.

This section could also be compiled as a separate file.
