



## 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 Modules, UPS and PLC to**  
**Matimba Power Station over a period of five (5)**  
**years.**

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<b>Contents:</b>	<b>No of pages</b>
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<b>Part C2 Pricing Data</b>	<b>[•]</b>
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**CONTRACT No. [Insert at award stage]**

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## **PART C1: AGREEMENTS & CONTRACT DATA**

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

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# 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:

**Supply, and delivery Modules, UPS and PLC to Matimba Power Station over a period of five years**

The tenderer, identified in the Offer signature block, has

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

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

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

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

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

## 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) Name & signature of witness _____ Date _____	_____ _____ _____ <b>Eskom Holdings SOC Ltd, Megawatt Park, Maxwell Drive, Sandton, Johannesburg, 2199</b> _____ _____
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## C1.2 SC3 Contract Data

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

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

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

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

Clause	Statement	Data
1	<b>General</b>	
	The <i>conditions of contract</i> are the core clauses and the clauses for Options	
		<b>X1: Price adjustment for inflation</b>
		<b>X2 Changes in the law</b>
		<b>X7: Delay damages</b>
		<b>Z: Additional conditions of contract</b>
	of the NEC3 Supply Contract (April 2013) <sup>2</sup>	(If the December 2009 edition is to be used delete April 2013 and replace by December 2013)
10.1	The <i>Purchaser</i> is (name):	<b>Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state owned company incorporated in terms of the company laws of the Republic of South Africa</b>
	Address	<b>Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg</b>
	Tel No.	<b>[●]</b>
	Fax No.	<b>[●]</b>
10.1	The <i>Supply Manager</i> is (name):	<b>J Hlongwane</b>
	Address	<b>Eskom Holdings SOC Limited (Reg No: 2002/015527/06) Matimba Power Station Private Bag x215, Lephalale</b>
	Tel	<b>014 763 8278</b>
	Fax	<b>086 212 0725</b>

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

	e-mail	<b>Hlongwjh@eskom.co.za</b>
11.2(13)	The <i>goods</i> are	<b>Modules, UPS and PLC</b>
11.2(13)	The <i>services</i> are	<b>Supply and deliver on site Matimba Power Station, Main Stores Receiving</b>
11.2(14)	The following matters will be included in the Risk Register	<b>N/A</b>
11.2(15)	The Goods Information is in	<b>Part 3: Scope of Work and all documents and drawings to which it makes reference.</b>
11.2(15)	The Supply Requirements as part of the Goods Information is in	<b>Annexure A to this Contract Data</b>
12.2	The <i>law of the contract</i> is the law of	<b>the Republic of South Africa</b>
13.1	The <i>language of this contract</i> is	<b>English</b>
13.3	The <i>period for reply</i> is	<b>3 working days</b>
<b>2</b>	<b>The <i>Supplier's</i> main responsibilities</b>	<b>Data required by this section of the core clauses is provided by the <i>Supplier</i> in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.</b>

**Time**

30.1	The <i>starting date</i> is.	<b>2026-04-01</b>				
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	<table border="1"> <thead> <tr> <th><i>goods and services</i></th> <th><i>delivery date</i></th> </tr> </thead> <tbody> <tr> <td><b>1 As per the order per item on as and when required basis as stipulated in this contract agreement</b></td> <td><b>As per agreed programme</b></td> </tr> </tbody> </table>	<i>goods and services</i>	<i>delivery date</i>	<b>1 As per the order per item on as and when required basis as stipulated in this contract agreement</b>	<b>As per agreed programme</b>
<i>goods and services</i>	<i>delivery date</i>					
<b>1 As per the order per item on as and when required basis as stipulated in this contract agreement</b>	<b>As per agreed programme</b>					
31.1	The <i>Supplier</i> is to submit a first programme for acceptance within	<b>2 weeks of the Contract Date indicating lead times of each item on the contract.</b>				
32.2	The <i>Supplier</i> submits revised programmes at intervals no longer than	<b>1 weeks.</b>				

**Testing and defects**

42	The <i>defects date</i> is	<b>1 weeks after Delivery.</b>
43.2	The <i>defect correction period</i> is	<b>As per the agreed lead times.</b>
42.2	The <i>defects access period</i> is	<b>As per agreed arrangement made</b>

**5 Payment**

50.1	The <i>assessment interval</i> is	<b>within 7 days after delivery.</b>
51.1	The <i>currency of this contract</i> is the	<b>South African Rand</b>

51.2	The period within which payments are made is	<b>As per Eskom terms linked to the vendor registration</b>
51.4	The <i>interest rate</i> is	<p>the publicly quoted prime rate of interest (calculated on a 365 day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and</p> <p>(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted <i>mutatis mutandis</i> every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.</p>
<b>Compensation events</b>		There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
7	<b>Title</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
8	<b>Risks, liabilities, indemnities and insurance</b>	
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	<b>R10 000 (Ten Thousand Rand)</b>
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	<p>(1) the <i>Purchaser's</i> existing and surrounding property in the care, custody and control of the supplier: the amount of the deductible (first amount payable) relevant to the event described in the "Format A" insurance policy available on request from Eskom's Insurance Management Services</p> <p>(2) or all other existing <i>Purchaser's</i> property</p>

For any one occurrence or series of occurrences arising out of one event but unlimited during the period of contract:

- R25 million (Twenty five million Rand) for Generation property;

88.3	The <i>Supplier's</i> liability for Defects due to his design which are not notified before the last <i>defects date</i> is limited to:	N/A
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	N/A
88.5	The <i>end of liability date</i> is	After Quality check has been done and the Guarantee period lapsed.

### Termination and dispute resolution

94.1	The <i>Adjudicator</i> is	the person nominated 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 and appointed on agreement by both Parties. (see <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> ). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the ICE-SA Division.
	Address	To be determined
	Tel No.	To be determined
	Fax No.	To be determined
	e-mail	To be determined
94.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA, a Division of the South African Institution of Civil Engineering, or its successor body (See <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> )
94.4(2)	The <i>tribunal</i> is:	arbitration
94.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.
94.4(5)	The place where arbitration is to be held is	Lephalale South Africa
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	the Chairman for the time being or his nominee
	- if the arbitration procedure does not	of the Association of Arbitrators (Southern

state who selects an arbitrator, is **Africa) or its successor body.**

**Data for Option clauses**

<b>X1</b>	<b>Price adjustment for inflation</b>		
X1.1	The <i>base date</i> for indices is		
	The proportions used to calculate the Price Adjustment Factor are:	<b>proportion</b>	<b>linked to index for</b>
			<b>Index prepared by</b>
			<b>SEIFSA Table G1</b>
		Electrical Components	
		85%	
		15%	
		non-adjustable	
		100%	
<b>X2</b>	<b>Changes in the law</b>		
X2.1	A change in the law of	<b>South Africa. It is a compensation event if it occurs after the Contract Date</b>	
<b>X7</b>	<b>Delay damages</b>		
X7.1	Delay damages for Delivery are	<b>Delivery of</b>	<b>amount per day</b>
		<b>Items as per Scope of Work as stipulated in this Contract</b>	<b>1% per day up to a maximum of 10% of the order value.</b>
<b>Z</b>	<b>The <i>additional conditions of contract</i> are</b>		
	<b>Z1 to Z15 always apply for Eskom</b>		

**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 than 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.

### Z13 Insurance

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

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

**INSURANCE TABLE A**

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

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

**Insurance by the *Purchaser***

87

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

**INSURANCE TABLE B**

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

Nuclear Material Damage Terrorism	Per the insurance policy document
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**Z14 Nuclear Liability**

- Z14.1 The *Purchaser* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation, as designated by the National Nuclear Regulator of the Republic of South Africa, and is the holder of a nuclear licence in respect of the KNPS.
- Z14.2 The *Purchaser* is solely responsible for and indemnifies the *Supplier* or any other person against any and all liabilities which the *Supplier* or any person may incur arising out of or resulting from nuclear damage, as defined in Act 47 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Supplier* or any other person or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.
- Z14.3 Subject to clause Z14.4 below, the *Purchaser* waives all rights of recourse, arising from the aforesaid, save to the extent that any claims arise or liability is incurred due or attributable to the unlawful intent of the *Supplier* or any other person, or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.
- Z14.4 The *Purchaser* does not waive its rights provided for in section 30 (7) of Act 47 of 1999, or any replacement section dealing with the same subject matter.
- Z14.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

**Z15 Asbestos**

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

- 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]*

**1.1. The Supply Requirements for this contract are based on the use of INCOTERMS:**

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

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

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

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

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

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

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

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

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

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

**1.2. The Supply Requirements for this contract are as follows:**

[Use these when INCOTERMS do not apply].

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

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

# C1.2 Contract Data

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

**[Instructions to the contract compiler: (delete this note before issue to tenderers with an enquiry)**  
 Whenever a cell is shaded in the left hand column it denotes this data is optional and would be required in relation to the option selected. In the event that the option is not required select and delete the whole row.]

**Notes to a tendering supplier:**

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

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

2.1.	2.2. Statement	2.3. Data
10.1	The <i>Supplier</i> is (Name): Address Tel No. Fax No.	
11.2(8)	The Goods Information for the <i>Supplier's</i> design is in:	
11.2(11)	The tendered total of the Prices is	R , (in words)
11.2(12)	The <i>price schedule</i> is in:	
11.2(14)	The following matters will be included in the Risk Register	
25.2	The restrictions to access for the <i>Supply Manager</i> and Others to work being done for this contract are	
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	<b><i>goods and services</i></b> <b><i>delivery date</i></b>

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

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

		1	[•]	[•]
		2	[•]	[•]
		3	[•]	[•]
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**

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

## C2.1 Pricing assumptions

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

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

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

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.

### 4. 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.

### 5. 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.

### **5.1. 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

Item	Material	Description	QTY	UoM	Unit Price	Total
1	0009579	MODULE: TYPE: BINARY OUTPUT; OUTPUT: 24 VDC 0.5 A; SUPPL P/N: 07AB63R1; FOR USE ON TSS	10	Ea		
2	0121120	MODULE: TYPE: TURBO/BOILER THYRISTOR REVERSING ANALOG; POWER SOURCE: 380 VAC 3 PH 1.1 KW 50 HZ; SUPPL P/N: A3104360	10	Ea		
3	0126008	MODULE: TYPE: SEPARATOR; APPLICATION: RELAY; SPECIFICATION: VDE0160; SUPPL P/N: GHR315-0001R1; REFERENCE NO: VDE 0160	15	Ea		
4	0130766	MODULE: TYPE: TEMPERATURE TRANSMITTER; SUPPL P/N: M9047; PCB, ASSY	10	Ea		
5	0130961	MODULE: TYPE: TRANSISTOR; SUPPL P/N: 1891203; CTT BOARD ASSEMBLY	10	Ea		
6	0132432	MODULE, POWER SUPPLY: TYPE: PRECIPITATOR; SUPPL P/N: SCAFA118; REFERENCE NO: 3283/102/56; FOR USE ON PRECIPITATOR	10	Ea		
7	0132465	MODULE: TYPE: ISOLATED PHOTO SWITCHING; SUPPL P/N: 6700191; REFERENCE NO: CLM8600; MODS	10	Ea		
8	0132591	MODULE: TYPE: EARTH FAULT; APPLICATION: PCB; SUPPL P/N: SP305; FOR PRINT CIRCUIT BOARD	20	Ea		
9	0132622	MODULE, POWER SUPPLY: TYPE: PRINTED CIRCUIT BOARD; OUTPUT: 24 VDC; REFERENCE NO: T7CDEF; PSV5-24 1SS 3; PSU 5-24	10	Ea		
10	0132816	MODULE: TYPE: IMPEDANCE EQUALIZER; SUPPL P/N: RT481B; REFERENCE NO: GNT7081299R0001; PRINTED CIRCUIT BOARD	10	Ea		
11	0132817	MODULE, POWER SUPPLY: TYPE: H2 ELECTRO; SUPPL P/N: KC480A; REFERENCE NO: GNT0102700R1; GN7552832	10	Ea		
12	0132836	MODULE, POWER SUPPLY: TYPE: POWER BRIDGE; INPUT: 380/500 VAC; OUTPUT: 26.5/25/11 VDC 0.21/0.9 A; SUPPL P/N: PR25-14; REFERENCE NO: 029059302; 18-14:25V 0.02A, 15-11:11V0.90A, 16-12:11V 0.90A, 17-13:26.5V 0.21A	10	Ea		
13	0133354	MODULE: TYPE: LIGHT DUTY RELAY; REFERENCE NO: 103.111.486.200; SRA10; WITH INPUT FOR LOGIC SIGNALS, SWITCHING CAPABILITY 60V/1A/30W, PART OF AV 5 CONTROL SYSTEM	10	Ea		
14	0133600	MODULE: TYPE: RMR CARD; DIMENSIONS: WD 64 X LG 98 MM; REFERENCE NO: 415864; (M-RET CAR)	10	Ea		
15	0135121	MODULE: TYPE: SWITCH CONTROL; REFERENCE NO: 0479845; 66011-4-0776097-2; HA01; PRINTED CIRCUIT BOARD	15	Ea		
16	0137964	MODULE: TYPE: REVERSE ROTATION DETECTOR DRIVER; REFERENCE NO: 41.04.A4.00.00.00	15	Ea		

17	0139512	MODULE: TYPE: RELAY CONTROL; REFERENCE NO: 66011-4-0776038-3; RL01; 0479763; PRINTED CIRCUIT BOARD	15	Ea		
18	0139524	MODULE: TYPE: OPTO-COUPLER; POWER SOURCE: 24 VDC; SUPPL P/N: ERP-015/24V; FOR USE ON ASH SPREADER AND STACKER	15	Ea		
19	0147768	MODULE: TYPE: SCANNER I/O; DRAWING NO: 1775-S4B REV 1; REFERENCE NO: 1775S4B; MESSAGE HANDLING, INDICATORS FOR PASS, FAIL CH1/CH2/CH3/CH4, PLUG CONNECTIONS FOR BACKUP AND CH5	10	Ea		
20	0157925	MODULE: TYPE: ALARM CIRCUIT INTERFACE; REFERENCE NO: 7MT00693; G53300-R13-L1-88 LINE 356; G53300-R13-L1-88; PRINTED CIRCUIT BOARD	10	Ea		
21	0157926	MODULE: TYPE: DIRECT CURRENT FAIL/BACKUP; REFERENCE NO: G5300-R15-L1-2-88; G53 300-R15-L1-2-88; 7MT00693; PRINTED CIRCUIT BOARD; LINE 357	10	Ea		
22	0157931	MODULE: TYPE: DUAL MAKE/BRAKE; DIMENSIONS: WD 14 X LG 25 X THK 5 MM; REFERENCE NO: 2-767-001; JACK, MENTOR, 5 PINS	10	Ea		
23	0186386	MODULE: TYPE: CUBICLE SUPPLY; POWER SOURCE: 24 V; SUPPL P/N: 6FP1707-OB VA61	10	Ea		
24	0215551	MODULE, POWER SUPPLY: INPUT: 240 VAC; OUTPUT: 24 VDC 10 A; SUPPL P/N: PS-1AC/24VDC/10; DIMENSIONS: WD 60 MM X HT 130 MM X DP 125 MM, ORDER NUMBER: 2866763, PHOENIX CONTACT BRAND ONLY; QUINT	10	Ea		
25	0218497	MODULE: TYPE: ELECTRONIC TRIP; POWER SOURCE: 24 VDC; OEM P/N: EAM15A31-99-815; SUPERSEDED BY 0553227; SUPPL P/N: EAM 15A 31-99-815; 9210-004; REFERENCE NO: SZ50013813	5	Ea		
26	0218847	MODULE: TYPE: STRAIN GAUGE METER; INPUT: 0.24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 250 V 50 HZ; SUPPL P/N: PAXCDL 10; PAXS 0000; COMPLETE WITH ANALOG OUTPUT CARD, USED ON ASH CONDITIONER MASS METERS	10	Ea		
27	0218901	MODULE: TYPE: THYRISTOR; INPUT: 380 V; OUTPUT: 380 V; SUPPL P/N: V1/V2/V3; 6SY7000-OAA88; 77250N16KOF; 6SE7087-6JK60; LINE SIDE, 2 X 250A, 1600V, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL	10	Ea		
28	0218902	MODULE: TYPE: INVERTER; INPUT: 380 VAC 50 HZ; SUPPL P/N: A29; 6SE7087-6JK60; 6SE7033-2EG84-1JF0; PRODUCTS WITH DESIGN VERSION A, GATING IGD5, FOR UNIT 3 PHASE, 380-460VAC, 50/60HZ, 260A AND 3 AC 500-575V, 50/60HZ, 156A, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL	15	Ea		
29	0218903	MODULE: TYPE: STANDARDIZING; INPUT: 380 VAC 3 PH; SUPPL P/N: A26; 6SE7087-6JK60; 6SE7032-6EG84-1BH0; ABO FOR UNITS 3 PHASE, 380-460VAC AND 510-620VDC, 260A, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL, MASTERDRIVE	20	Ea		

30	0218905	MODULE: TYPE: INTERFACE CARD; INPUT: 380 VAC 3 PH; SUPPL P/N: 6SE7087-6JK60; A20; 6SE7038-6GL84-1BG0; PRODUCTS WITH DESIGN VERSION A, INVERTER INTERFACE MODULE IVI, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL	15	Ea		
31	0218906	MODULE: TYPE: TRANSISTOR; INPUT: 380 VAC 3 PH; SUPPL P/N: 6SY7000-OAC82; 300A, 1200V, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL; A100/A101/A110/A111/A200/A210/A211/A300/IGBT; BSM300GA 120 DN2S; SIEMENS SIMOVERT MASTERDRIVE 6SE7087-6JK60	20	Ea		
32	0224277	MODULE: TYPE: BATTERY; INPUT: 5.1 VDC 15 MA; OUTPUT: 3.6 VDC 20 MA; SUPPL P/N: 96391474; REFERENCE NO: 1756-BATM A; J SERIES	10	Ea		
33	0224278	MODULE: TYPE: CONTROLNET ADAPTOR I/O; INPUT: 0-10 MA; OUTPUT: 0-10 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 1771-ACN15	10	Ea		
34	0224887	MODULE, POWER SUPPLY: TYPE: CONTROL; INPUT: 230 VAC; OUTPUT: 24 VDC; SUPPL P/N: 6ES7307-1KA01-OAAO	10	Ea		
35	0229850	MODULE, POWER SUPPLY: INPUT: 220 VAC; OUTPUT: 12/24 VDC; REFERENCE NO: 410-500	10	Ea		
36	0233693	MODULE: TYPE: PROGRAMMABLE LOGIC CONTROLLER; INPUT: 24 V; OUTPUT: 24 V; POWER SOURCE: 24 V; SUPPL P/N: 6ED1052-1HB08-0BA1; 6ED1052-1HB08-0BA1	15	Ea		
37	0238822	MODULE, POWER SUPPLY: TYPE: GAS 1 PLANT; INPUT: 120-230 VAC; OUTPUT: 24 VDC 20 A; SUPPL P/N: 6EP1336-2BA00; USED ON GAS 1 PLANT	15	Ea		
38	0242073	MODULE: TYPE: BACKPLANE POWER; INPUT: 5-12 VDC; OUTPUT: 5 VDC; POWER SOURCE: 5 VDC; DIMENSIONS: WD 157 X LG 257 X HT 90 MM; REFERENCE NO: CP3; PACKED IN A BOX WITH ID LABEL, SUITABLE FOR ALL CONDAIR CP3 UNITS, CODE: 2530144	10	Ea		
39	0248214	MODULE: TYPE: HIGH RIPPLE ALARM; POWER SOURCE: 24 VDC; APPLICATION: STATIC CHARGER 24 V AT 10 A; SUPPL P/N: SP332	15	Ea		
40	0248215	MODULE: TYPE: MOTHERBOARD; POWER SOURCE: 220 V; APPLICATION: STATIC CHARGER; SUPPL P/N: 610A	10	Ea		
41	0248217	MODULE: TYPE: MOTHERBOARD/CARD; POWER SOURCE: 24 V; APPLICATION: CHARGER 24 V 45 A; MANUF P/N: 6104 MB	10	Ea		
42	0248218	MODULE: TYPE: LOW VOLTAGE; INPUT: 220 VAC; OUTPUT: 24 V; POWER SOURCE: 24 VDC; APPLICATION: ALLIED CHARGER; SUPPL P/N: SP300-32; FOR USE ON 24 V AT V100A	20	Ea		
43	0248275	MODULE: TYPE: MOTHER BOARD 3 PH; APPLICATION: CHARGER 24-100 A; REFERENCE NO: 6300C	15	Ea		
44	0248276	MODULE, POWER SUPPLY: TYPE: BOARD 3 PH; APPLICATION: CHARGER 24 V 100 A; REFERENCE NO: 6300C	15	Ea		

45	0248277	MODULE: TYPE: CONTROL CARD, 3 PH; OUTPUT: 24 V; POWER SOURCE: 220 VAC; APPLICATION: ALLIED CHARGER 24 V 100 A; SUPPL P/N: BR 500DB-4	15	Ea		
46	0248278	MODULE: TYPE: SURGE SUPPRESSION CARD; POWER SOURCE: 24 V 100 A; APPLICATION: CHARGER; REFERENCE NO: BR3	20	Ea		
47	0248279	MODULE: TYPE: SURGE SUPPRESSION CARD; OUTPUT: 24 V; POWER SOURCE: 220 VAC; APPLICATION: CHARGER 24 V 45 A/STATIC CHARGER 24 V 50 A; MANUF P/N: BR7	10	Ea		
48	0248280	MODULE: TYPE: CONTROL CARD, 1 PH; POWER SOURCE: 24 V 50 A; APPLICATION: STATIC CHARGER; SUPPL P/N: BR5000A-4	10	Ea		
49	0250847	MODULE, COMMUNICATION: TYPE: SATT; INPUT: 5 V; OUTPUT: 100-400 MA; APPLICATION: CARD SOOTBLOWER SYSTEM; SOFTWARE: CONTROLNET PROTOCOL, RACH, 200-RACN; REFERENCE NO: PM 864 AK01	15	Ea		
50	0253203	MODULE: TYPE: CONTROL; INPUT: 24 V; OUTPUT: 24 V; POWER SOURCE: 24 V; APPLICATION: PLC; SUPPL P/N: 70BK06A-E; REFERENCE NO: HESG 332194 R0001	10	Ea		
51	253440	MODULE, COMMUNICATION: TYPE: ETHERNET, 5 PORT; APPLICATION: DHP/SO3 PLANT COMMS, TWO FIBER OPTIC PORTS, SUPER-FAST FAULT TOLERANT RING REDUNDANCY; SOFTWARE: PRE-CONFIGURED TRUE PLUG AND PLAY SIMPLICITY; SPECIFICATION: MIL-STD-1275; REFERENCE NO: ET-5RS; PRE-CONFIGURED FOR TRUE PLUG & PLAY SIMPLICITY, POWER PROTECTION, COMPACT LOW-PROFILE PACKAGING THAT FITS IN TIGHT SPACES & SHALLOW ENCLOSURES, INDUSTRIAL ETHERNET, ETHERTRAK, SIXNET	15	Ea		
52	0255944	MODULE, POWER SUPPLY: TYPE: DISTRIBUTION; INPUT: 24 VDC; APPLICATION: EXCITATION; SUPPL P/N: 3BHE021481R0001; MICO ADVANCED	20	Ea		
53	0559323	MODULE: TYPE: CONVERTER CONTROL; INPUT: UDC:1.133V; 1A; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC 2 A; APPLICATION: EXCITATION SYSTEM; DIMENSIONS: WD 73.5 X HT 142 X DP 373 MM; MANUF P/N: PC D231 B: PEC80-CCI; REFERENCE NO: 3BHE025541R0101; UNITROL 6800	10	Ea		
54	0559328	MODULE: TYPE: ADVANCED POWER DISTRIBUTION; INPUT: 24 VDC; OUTPUT: 24 VDC 5 A; POWER SOURCE: 24 VDC; SPECIFICATION: EN 61000-6-2; MANUF P/N: 9000-41034-0100600; REFERENCE NO: 3BHE021481R0001; ELECTRONIC AUXILIARY; FUNCTION: SWITCHING AND MONITORING	20	Ea		
55	0565079	MODULE: TYPE: BUS COUPLER; POWER SOURCE: 24 VDC; APPLICATION: CONTROL P14 DCS; REFERENCE NO: 70BK03C-E	15	Ea		
56	0577921	MODULE: TYPE: PROGRAMME DISPLAY UNIT; APPLICATION: MOTOR PROTECTION UNIT; MANUF P/N: SPCJ 4D34-AA; REVISION P CARD; FOR SPAM 150C RELAY	15	Ea		
57	0580171	MODULE: TYPE: INTERFACE; POWER SOURCE: 24 VDC; MANUF P/N: 3BHE022294R0103; REFERENCE NO: GFD233	50	Ea		

58	0586589	MODULE: TYPE: BINARY SIGNAL; APPLICATION: STACKER & RECLAIMER; MANUF P/N: 6SE7090-OXX84-3EA0; SIMOVERT MASTERDRIVES; SERIAL I/O; FOR ANALOG & BINARY SIGNALS SCI1	15	Ea		
59	0586590	MODULE: TYPE: MAIN THYRISTOR; APPLICATION: STACKER/RECLAIMER; MANUF P/N: 6SY7000-0AA88; MASTER DRIVES; SKKT; 2 X 273A; 1600V	15	Ea		
60	0597474	MODULE: TYPE: ANALOG OUTPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7232-4HD32-OXBO; SIMATIC S7-1200; SM 1232; 4 AO; +/- 10 V; 14 BIT RESOLUTION OR 0-20 MA/4-20 MA 13 BIT RESOLUTION	15	Ea		
61	0597475	MODULE: TYPE: COMPACT CPU; INPUT: 2.5-10 V 4-20 MA; POWER SOURCE: 24 VDC; OEM P/N: 6ES7214-1AG31-OXBO; SIMATIC S7-1200; CPU 1214C; ON-BOARD I/O; 14DI; 10DO; 2 A1; PROGRAM/DATA MEMORY; 75 KB	20	Ea		
62	0597476	MODULE: TYPE: LOGO MODULAR; POWER SOURCE: 12-24 VDC; APPLICATION: CONVEYOR BELTS; SPECIFICATION: EAN 4034106029371; COMMERCIAL SIZE: WD 4 X LG 3 X HT 3.5 MM; OEM P/N: 6ED1052-1MD08-OBA1; 12/24RCE; DISPLAY: PU/I/O; RELAY: 8DI (4AI)/4 DO; MEM 400 BLOCKS EXPANDABLE; ETHERNET BUILT IN WEB-SERVER: DATALOG MICRO SD CARD FOR LOGO; SOFT COMFORT V8 PREVIOUS PROJECT USABLE	100	Ea		
63	0597477	MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OEM P/N: 6ES7231-4HF32-OXBO; SIMATIC S7-1200; SM 1231; 8AI; +/-10V; +/-2.5V; 0-20MA; 12BIT + SIGN OR 13BIT DC	15	Ea		
64	0597478	MODULE: TYPE: DIGITAL INPUT/OUTPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7223-1BL32-OXBO; SIMATIC S7-1200; SM1223; 16DI; SINK; SOURCE; TRANSISTOR 0.5 A	20	Ea		
65	597835	MODULE: TYPE: REPLACEMENT ELECTRONICS; OEM P/N: IBS STME 24 BK-T-2754367; REFERENCE NO: 2754367; PACKING UNIT: (1PC); IP20; DIN RAIL; INTERBUS-S; 24VDC; IDENT: 08	100	Ea		
66	0599435	MODULE: TYPE: EXPANSION; POWER SOURCE: 24 VDC; DIMENSIONS: WD 35.5 X LG 90 X THK 58 MM; OEM P/N: 6ED1055-1MA00-0BA2; PU: DC 12/24 V; 2 AI; 0-10 V OR 0/4-20 MA FOR LOGO 8	15	Ea		
67	0599438	MODULE: TYPE: BUS COUPLER; APPLICATION: PRO CONTROL P13 SYSTEM; OEM P/N: 70BK03C-E/R1; LOCAL BUS/SERIAL INTERFACE; RS232; FIRMWARE HESG 492114	15	Ea		
68	0602641	MODULE, COMMUNICATION: TYPE: PROCESSOR; OEM P/N: 6GKI1143-OTB01; MODEL NO: CP 1430TF	30	Ea		
69	0602990	MODULE: TYPE: ANALOG; INPUT: +/- 20 MA; +/-10 V; OUTPUT: DIGITAL; POWER SOURCE: 24 V 2 A; APPLICATION: GENERATOR EXCITATION CONTROL; DIMENSIONS: WD 141.4 X LG 370 X 73 DP MM; SPECIFICATION: IEC 60255-21; IEEE 344-1987; COMMERCIAL SIZE: 6; OEM P/N: 3BHE032025R101; REFERENCE NO: PC D232; INPUT/OUTPUT; FOR UNITROL 6800	20	Ea		

70	609659	MODULE: TYPE: OSCILLATOR/DEMULATOR; OUTPUT: -2 TO -18 VDC; POWER SOURCE: 24 VDC; DIMENSIONS: WD 56 X LG 83 X HT 25 MM; SPECIFICATION: DIN EN 10204; MODEL NO: DS821.OD130; DRIVER FOR STANDARD DISPLACEMENT SENSOR SERIES	15	Ea		
71	616000	MODULE: TYPE: BOARD, G5 5MPS; APPLICATION: CONVEYOR BELTS; REFERENCE NO: 48V4 MK8 PS1A2	15	Ea		
72	0617144	MODULE: TYPE: AC FILTER; INPUT: 85-264 VAC; POWER SOURCE: 230 VAC; APPLICATION: CONTACT POWER SUPPLY; DIMENSIONS: WD 114 X HT 105 X THK 35 MM; SPECIFICATION: EN60950; REFERENCE NO: 2319919; ME-MAX-NEF/QUIT20A; NOMINAL INPUT VOLTAGE 10-230 VAC; INPUT CURRENT 7 A; THE FREQUENCY RANGE IS 45-65 HZ; INSULATION WITH STAND 250 V/6 KV	15	Ea		
73	0617698	MODULE: TYPE: SPLIT UNIT; APPLICATION: AIRCON; SPECIFICATION: IPM PCB501/PHH1NO FUJ17MD75 RA120; MODEL NO: HP36HNI	20	Ea		
74	0620893	MODULE: TYPE: EXPANSION; INPUT: 5-8.5 VDC; OUTPUT: 5 A 100 MA; SPECIFICATION: IEC 61131; REFERENCE NO: 6ED1055-1MM00-0BA2	30	Ea		
75	0621710	MODULE: TYPE: UHF DMR, DASH/PSU; OEM P/N: MDM28QNN9VA2ANEDM4PSU; DM4600E	30	Ea		
76	0621716	MODULE: TYPE: UHF DMR, DASH; OEM P/N: MDM28QNN9VA2ANE; DM4600E	20	Ea		
77	0621719	MODULE: TYPE: VHF DMR; OEM P/N: MDM28JNN9VA2ANEDM4PSU; DASH AND PSU; DM4600E	20	Ea		
78	622250	MODULE: TYPE: TRANSRECEIVER; APPLICATION: PORTABLE RADIO; DIMENSIONS: WD 65 X LG 150 X DP 45 MM; SPECIFICATION: ETSI; OEM P/N: SPU8040T3UHF	20	Ea		
79	0623547	MODULE: TYPE: BINARY O/P EXPANSION; INPUT: (4) DIGITAL; POWER SOURCE: 24 VDC; DIMENSIONS: WD 35.5 X HT 90 X DPT 68 MM; REFERENCE NO: 6ED1055- 1MB00-0BA2	20	Ea		
80	0625920	MODULE: TYPE: DISPLAY GRAPHICS CARD; NVIDIA NVS; 510 QUAD; INTEL PENTIUM 4 OR XEON PROCESSOR HIGHER AMD OPTERON PROCESSOR OR HIGHER RAM 1GB	20	Ea		
81	0625992	MODULE: TYPE: DUAL DISPLAY GRAPHIC CARD; APPLICATION: FIRE PROTECTION; REFERENCE NO: GT7302GBDDR P01-E2.0; NVIDIA GE FORCE; HDMI + DL-DVH	20	Ea		
82	0629290	MODULE: TYPE: INTERFACE PROFIBUS DP; APPLICATION: CPU 412-2 CPU INTERFACE MPI/DP 12 MBIT/S; OEM P/N: 6ES7412-2XK07-0AB0\CPU412-2	30	Ea		
83	0629291	MODULE: TYPE: DIGITAL OUTPUT; OUTPUT: 24 VDC 0.5 A; APPLICATION: STACKER/SPREADER DHP; OEM P/N: 6ES74221BL000AA0; SIMATIC, OPTICAL, ISOLATED, 32 DO	40	Ea		
84	0629292	MODULE, POWER SUPPLY: TYPE: MEDIA CONVERTER; INPUT: 24 VDC; OUTPUT: 24 V 0.1 A; APPLICATION: DHP STACKER/SPREADER; OEM P/N: 6GK51011BC002AA3	15	Ea		

85	0629293	MODULE: TYPE: PROFIBUS; APPLICATION: VSD MONITOR MICRO MASTER 4; OEM P/N: 6SE6400-1PB00-0AA0; E-STAND (VERSION) B03/1.03; WEIGHT 0.30 KG, 66 LBS;TEMP RANGE -10 DEG C TO + 50 DEG C; IP20, MM 4 C/L LISTED ACCESSORY	50	Ea		
86	0629294	MODULE, COMMUNICATION: TYPE: MODUS SOFTWARE RS422/485; APPLICATION: DHP SIMATIC S7-300; OEM P/N: 6ES7341-1CH01-0AE0; CP 341 PROCESSOR WITH INTERFACE; INCLUDING CONFIGURE PACKAGE ON CD	30	Ea		
87	0629295	MODULE: TYPE: ANALOG INPUT; APPLICATION: STACKER/SPREADER DHP, SIMATIC 8 CHANNEL; OEM P/N: 6ES74311KF000AB0	15	Ea		
88	0629513	MODULE: TYPE: SIMATIC; APPLICATION: STACKER/SPREADER COAL; OEM P/N: 6ES74001TA010AA0; SIMATIC, UR 1 RACK, CENTRALIZED AND DISTRIBUTED WITH 18 SLOTS 2 REDUNDANT PS PLUGGABLE	20	Ea		
89	0632912	MODULE: TYPE: DIGITAL O/P, SM 322; APPLICATION: DHP SIMATIC S7-300; MANUF P/N: 6ES7322-1HH01-0AA0; REFERENCE NO: C-B6TR0249; OPTICALLY ISOLATED 16DO; RELAY CONTACTS, 1 X 20 PIN; AC 120/230V; SIMATIC	20	Ea		
90	0632914	MODULE: TYPE: DIGITAL OUTPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7322-1BL00-0AA0	20	Ea		
91	632916	MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; OUTPUT: 13-30 V AT 7 MA; POWER SOURCE: 24 VDC; APPLICATION: DEGRITTING SUMP; DIMENSIONS: WD 40 X HT 125 X DP 120 MM; SPECIFICATION: IEC 61131; COMMERCIAL SIZE: SM 321; OEM P/N: 6ES7321-1BL00-0AA0; REFERENCE NO: S7-300; OPTICALLY ISOLATED 32DI; 1 X 40 PIN	10	Ea		
92	0632917	MODULE: TYPE: CENTRAL PROCESSING UNIT; INPUT: 750 MA; OUTPUT: 20.4-28.8 VAC; POWER SOURCE: 24 VDC; APPLICATION: DHP SIMATIC S7-300; DIMENSIONS: WD 40 X HT 125 X DP 130 MM; SPECIFICATION: DIN EN 10204; COMMERCIAL SIZE: 315-2 PN/DP; OEM P/N: 6ES7315-2EH14-0AB0; REFERENCE NO: S7-300; 384 KBYTE WORKING MEMORY; INTERFACE MPI/DP 12MBIT/S; WITH 2 PORT SWITCH MICRO MEMORY CARD NECESSARY	10	Ea		
93	0632918	MODULE, COMMUNICATION: TYPE: CONNECTION; INPUT: 24 VDC; OUTPUT: 5 VAC DC 1.4 A; APPLICATION: SIMATIC S7-400; HARDWARE: S7-400; SOFTWARE: PROCESSOR; SPECIFICATION: ISO; OEM P/N: 6GK7443-1EX30-0XE0; PROCESSOR CP443-1;TO INDUSTRY ETHERN, VIA ISO, TCP/IP AND UDP; S7-COMM, FETCH/WRITE; SEND/RCV WITH & W/O RFC1006, MULTICAST, PROFINET IO-CONTROLLER, DHCP, SNMP V2, WEB; DIAGNOS, INITIALIZATION VIA LAN	10	Ea		
94	0632919	MODULE, COMMUNICATION: TYPE: OPTICAL LINK; APPLICATION: STACKER/SPREADER DHP; OEM P/N: 6GK15032CB00; PB OLM/G11 V4.0 OPTICAL LINK MODULE W. 1 RS485 AND 1 GLASS-FOC-INTERFACE (2 BFOC-SOCKETS); WITH SIGNAL. CONTACT AND MEASURING OUTPUT	10	Ea		

95	0632920	MODULE: TYPE: REPEATER RS485; APPLICATION: DHP SIMATIC DP; OEM P/N: 6ES7972-0AA01-0XA0; SIMATIC DP; RS485 REPEATER FOR THE CONNECTION OF PROFIBUS/MPI BUS SYSTEMS WITH MAX. 31 NODES; MAX. 12 MBIT/S; DEGREE OF PROTECTION IP20	20	Ea		
96	0632921	MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; OUTPUT: 13-30 VDC 7 MA; POWER SOURCE: 24 VDC; APPLICATION: LP 2 FRONT SHAFT VI; DIMENSIONS: WD 25 X HT 290 X DP 210 MM; SPECIFICATION: ISO; COMMERCIAL SIZE: SM 421; OEM P/N: 6ES7421-BL01-OAAO; REFERENCE NO: S7-400; SM 421 DIGITAL INPUT MODULE; OPTIC. ISOLATED, 32 DI, 24 VDC	25	Ea		
97	0632923	MODULE: TYPE: ANALOG I/P; INPUT: 3.2 TO 20 MA; APPLICATION: STACKER/SPREADER DHP; OEM P/N: 6ES73317KF020ABO; SIMATIC S7-300 SERIES PLC I/O MODULE 8 X I/O, 24 V DC, 125 X 40 X 120 MM	20	Ea		
98	0632924	MODULE: TYPE: ANALOG INPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7331-7KF02-OABO; REFERENCE NO: SM 331	20	Ea		
99	0632925	MODULE: TYPE: ANALOG OUTPUT; INPUT: 60-240 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: BACKPLANE BUS; DIMENSIONS: WD 40 X HT 125 X DP 120 MM; SPECIFICATION: ISO; COMMERCIAL SIZE: SM 332; OEM P/N: 6ES7332-5HD01-0ABO; OPTICALLY ISOLATED, 4 AO, U/I; DIAGNOSTICS; RESOLUTION 11/12 BITS, 20 PIN; REMOVE/INSERT W. ACTIVE	15	Ea		
100	0632927	MODULE, COMMUNICATION: TYPE: PROCESSOR; INPUT: 24 VDC; APPLICATION: CONNECTING; OEM P/N: 6GK7343-1CX10-0XE0; SIMATIC NET; CP 343-1 LEAN COMMUNICATION PROCESSOR FOR CONNECTING SIMATIC S7-300 TO IND. ETHERNET VIA TCP/IP AND UDP; MULTICAST; SEND/RECEIVE W. AND W/O RFC1006; FETCH/; RITE;S7-COMMUNICATION(SERVER) PROFINET IO-DEVICE; INTEGRATED 2-PORT SWITCH ERTEC 200; BG EXCHANGE W/O PG, SNMP DIAGNOSTICS; INITIALIZ. VIA LAN; 2 X RJ45 CONNECT. FOR LAN WITH 10/100 MBIT/S	15	Ea		
101	0632928	MODULE: TYPE: COMMUNICATIONS PROCESSOR; DIMENSIONS: WD 25 X HT 290 X DP 210 MM; COMMERCIAL SIZE: CP 443-1; OEM P/N: 6GK7443-1EX11-0XE0	20	Ea		
102	0633359	MODULE: TYPE: MICRO MASTER 4; APPLICATION: VSD MONITOR; SPECIFICATION: EN4019169450805; OEM P/N: 6SE6400-0APOO-0AA1; MICROMASTER 4 ADVANCED OPERATOR PANEL (AOP) DIGITAL FACE, ADVANCED OPERATOR PANEL; E-STAND (VERSION) A05/1.60, WEIGHT 0.30 KG/0.66 LBS, TEMP RANGE -10 DEG C TO + 50 DEG C; PROTECTION IP 20	15	Ea		
103	0636630	MODULE: TYPE: ANALOG INPUT; APPLICATION: SIMATIC S7-300; DIMENSIONS: WD 13.2 X LG 14.7 X HT 5.1 MM; SPECIFICATION: EAN 4025515072027; COMMERCIAL SIZE: ST73; OEM P/N: 6ES7331-7PF11-0ABO; ANALOG INPUT SM 331; OPTICALLY ISOLATED; 8 AI THERMOCOUPLE; TYPE B; E; J; K; L; N; R; S; T TXK/TXK (L) ACCORDING GOST 16 BIT; 50 MS; 1 X 40 PIN	10	Ea		

104	0636997	MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; POWER SOURCE: 24 VDC; OEM P/N: 6ES7321-1BH02-0AA0	10	Ea		
105	0636998	MODULE: TYPE: ANALOG; OEM P/N: 6ES7332-5HF00-0AB0	20	Ea		
106	0639248	MODULE: TYPE: ANALOG OUTPUT; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X HT 262 X DPT 176 MM; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD; WIDTH 4 PITCH; OEM P/N: 9210-002; 9222-011; MANUF P/N: 50-60-983; REFERENCE NO: AA16V00AF; D/A CONVERTER RESOLUTION 12 BIT; ME X012 SN	15	Ea		
107	0639252	MODULE: TYPE: ANALOG INPUT; INPUT: 0-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X HT 262 X DPT 176 MM; SPECIFICATION: DIN EN61000-4-2; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD; WIDTH 4 PITCH; OEM P/N: 9210-003; 9222-013; MANUF P/N: 50-61-373; REFERENCE NO: AE16V00DF50-61-370; ME X012 SN	15	Ea		
108	0639254	MODULE: TYPE: BINARY OUTPUT; OUTPUT: 24 V 50 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; MANUF P/N: 50-60-593; REFERENCE NO: DA64V 01AF 64BA 24V3 Z	15	Ea		
109	0639255	MODULE: TYPE: IP/OP BINARY; INPUT: 24 V 3.3 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; OEM P/N: 9210-007; MANUF P/N: 50-61-663; REFERENCE NO: SZ50013805; DEAIN 01AF 50-61-660; TYPE: DIGITAL I/O; ME X012 SN	15	Ea		
110	0639258	MODULE: TYPE: PROCESSOR; INPUT: 266 MHZ; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; OEM P/N: 9210-021; MANUF P/N: UMFPR60HF50-61-384; 50-61-387	15	Ea		
111	0639259	MODULE: TYPE: SUBNET BUS COUPLER (16 TN); POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X LG 262 X DPT 176 MM; SPECIFICATION: DIN EN 61000-42; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD WIDTH 4 PITCH; OEM P/N: 50-60-033; REFERENCE NO: UVIEW 10EF/50-60-033; SZ50014080; 16TN/RS232	15	Ea		
112	639260	MODULE: TYPE: CIRCUIT BREAKER; INPUT: 24 VDC; OUTPUT: 15 A; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 106.34 X LG 128.4 X DPT 194 MM; SPECIFICATION: DIN EN50082/DIN EN55011; COMMERCIAL SIZE: 3 HEIGHT 21 PITCH; OEM P/N: EAM15A 2V3 (31-99-815); REFERENCE NO: SZ50013813	20	Ea		
113	0639261	MODULE: TYPE: OVERSPEED MONITOR; INPUT: 8-25 000 HZ; POWER SOURCE: 24 VDC; APPLICATION: TURBINE OVERSPEED PROTECTION SYSTEM; DIMENSIONS: WD 20 X LG 262 X DPT 176 MM; SPECIFICATION: VGB R 103 M; COMMERCIAL SIZE: DOUBLE-EUROPE 6HE 5TE; OEM P/N: SZ50010991; REFERENCE NO: DW02-ST2; CURRENT CONTROL RANGE: 0.4 AMP (CODING 1:A); NUMBER OF TRIGGER WHEEL TEETH: 200 (CODING 2: F)	30	Ea		

114	0639262	MODULE: TYPE: SOLENOID VALVE CONTROL; OUTPUT: 1.5 A 320 HZ; POWER SOURCE: 20-30 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20.32 X HT 133.35; SPECIFICATION: DIN 41612; COMMERCIAL SIZE: EUROPEAN FORMAT 3 HEIGHT; 4 PITCH; OEM P/N: ANS MV02 (31-99-802); REFERENCE NO: ANS MV 31-99-801; SZ50013812; PULSE-WIDTH MODULATED	20	Ea		
115	0639263	MODULE: TYPE: BINARY INPUT; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20.32 MM; OEM P/N: 9210-016; MANUF P/N: K16IN01AF 50-60-400; 50-60-403; SUPPL P/N: K16INOIAF/50-60-403; REFERENCE NO: SZ50013804; FOR CHANGE OVER CONTACTS; WECHSLER 24VINT	20	Ea		
116	639292	MODULE: TYPE: CONTROL/VARIABLE SPEED DRIVES; INPUT: 4-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X HT 262 X DP 176 MM; SPECIFICATION: DIN EN61000-4-4; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD WIDTH 4 PITCH; OEM P/N: 9222-014; 50-60-153; REFERENCE NO: AEEA8 01CF	20	Ea		
117	0640339	MODULE: TYPE: FIRMWARE EPROM; INPUT: 5 VDC; OUTPUT: 5 VDC; POWER SOURCE: 5 VDC; APPLICATION: I/O; OEM P/N: EAS S61; REFERENCE NO: Z50016205	20	Ea		
118	0646753	MODULE: TYPE: RAIL MOUNT TEMPERATURE TRANSMITTER; OUTPUT: 4-20 MA; POWER SOURCE: 10.5-42 VDC; APPLICATION: THERMOCOUPLE/RESISTANCE SENSOR; OEM P/N: T32.3S.000-Z; REFERENCE NO: S 813995 V2.21	30	Ea		
119	0646754	MODULE: TYPE: VIBRATION MONITORING; INPUT: -30 TO 30 VDC; OUTPUT: 4 TO 20 MA; POWER SOURCE: 24 VDC; DIMENSIONS: WD 230.5 X LG 336 X HT 50 MM; SPECIFICATION: VIB310; OEM P/N: 6DL2310-0XX14- 1AX1; SPPA-D3000; FW: V2.11.30	20	Ea		
120	0646755	MODULE: TYPE: VIBRATION PROCESSING; INPUT: +/- 22 MA; +/-2 V; POWER SOURCE: 24 VDC; DIMENSIONS: WD 230.5 X LG 336 X HT 50 MM; SPECIFICATION: VIB320; OEM P/N: 6DL4320-0AA00; FW VERSION	20	Ea		
121	0647198	MODULE, COMMUNICATION: TYPE: NETWORK; OUTPUT: 24 VDC; SPECIFICATION: EN 60068-2-6; OEM P/N: CX5020-0111; DIMENSION: WD 100MM X HT 106MM X DPT 92MM; PROGRAMMABLE LOGIC CONTROL (PLC); CPU MODULE 1.6GHZ	30	Ea		
122	0655545	MODULE, POWER SUPPLY: TYPE: SWITCHMODE; INPUT: 220 VAC; OUTPUT: 24 VDC; APPLICATION: GENERATOR STATOR BAR TEMPERATURES; OEM P/N: T2PR-2222B1; POWER OUTPUT: 48 WATT; SHORT CIRCUIT PROTECTED; THERMAL OVERLOAD PROTECTION; 11 PIN BASE DIN RAIL MOUNT TYPE	20	Ea		
123	0655547	MODULE, POWER SUPPLY: TYPE: POWER CONNECTOR UNIT; INPUT: 24 VDC; OUTPUT: 24 VDC; APPLICATION: GENERATOR STATOR BAR TEMPERATURE; OEM P/N: T2PR-3405	20	Ea		

124	0655558	MODULE: TYPE: ISOLATED UNIVERSAL CONVERTER; INPUT: 0-150 DEG C; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: GENERATOR STATOR BAR TEMPERATURE; DIMENSIONS: WD 6.1 X LG 115 X HT 113 MM; OEM P/N: T2PR-3114; INPUT: RTD; TC; POTENTIOMETER; 0-10 V; 0/4-20 MA; OUTPUT: 0-10 V; 0/4-20 MA	20	Ea		
125	0659515	MODULE, COMMUNICATION: TYPE: DIGITAL OUTPUT SM322; INPUT: 24 VDC; OUTPUT: 24 VDC; APPLICATION: COARSE ASH DEGRADING SUMP PUMP; SOFTWARE: SIMATIC S7-300; OEM P/N: 6ES7322-1BF01-0AA0; ISOLATED; 8DO; 2A; 1 X 20-POLE; SC-K5PV8015	20	Ea		
126	0663356	MODULE: TYPE: PM240 POWER; INPUT: 380-400 V; OUTPUT: 400 V; APPLICATION: COAL RECLAIMER; DIMENSIONS: WD 350 X HT 634 X DP 316 MM; COMMERCIAL SIZE: FSF; MANUF P/N: 6SL3224-0BE34-5UA0; POWER FACTOR 0.85A; AMBIENT OPERATION TEMPERATURE 0-50 DEG C; IP 20/UL OPEN TYPE DEGREE OF PROTECTION; CONNECTION M8 BOLT	20	Ea		
127	0668065	MODULE: TYPE: DIGITAL OUTPUT; POWER SOURCE: 24 VDC; APPLICATION: HYDRAULIC UNIT CONTROL; DIMENSIONS: WD 45 X HT 80 X DP 62 MM; REFERENCE NO: 6ES7222-1BF22-0XA0	20	Ea		
128	0668066	MODULE: TYPE: CPU 224 COMPACT UNIT; INPUT: 24 VDC; APPLICATION: HYDRAULIC UNIT CONTROL; DIMENSIONS: WD 120.5 X HT 80 X DPT 62 MM; REFERENCE NO: 6ES7214-1A023-0XB0; 14 DI; 10 DO	50	Ea		
129	0668067	MODULE: TYPE: ANALOG INPUT EM231; INPUT: 0-10 VDC; POWER SOURCE: 24 VDC; APPLICATION: HYDRAULIC UNIT CONTROL; DIMENSIONS: WD 71.2 X HT 80 X DPT 62 MM; REFERENCE NO: 6ES7231-0HC22-0XA0; 4 AI	15	Ea		
130	0690753	MODULE, POWER SUPPLY: TYPE: VIBRATION MONITORING; INPUT: -30 TO 30 VDC; OUTPUT: 4-20 MA; SPECIFICATION: VIB310; SUPPL P/N: 6DL2310-0XX44-1AX1; SPPA-D3000; COMPATIBLE WITH 6DL2310-0XX22-1AX1 WITH FW: V2.11.15 & FPGA: P1.2.7	15	Ea		
131	0697248	MODULE: TYPE: HYDRAULIC VALVE POSITION CONTROLLER; INPUT: 4-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; 19-30 V; APPLICATION: HP BYPASS REGULATING VALVE; DIMENSIONS: WD 163 X HT 51 X DP 111 MM; REFERENCE NO: RS232; 103.215.285.210; PVR10-10; 1 PV; 1 BLOCKING ELEMENT; 2 ADDITIONAL SOLENOIDS	10	Ea		
132	0698144	MODULE: TYPE: THIN CLIENT; POWER SOURCE: 220 VAC; APPLICATION: HMI; DIMENSIONS: WD 116 X HT 177 X DP 29; REFERENCE NO: 5030/3040; 0J767W; TO BE USED WITH POWER EDGE R730 SERVERS THROUGH PCOIP & MICROSOFT RDP PROTOCOLS; MUST INCLUDE 2 DISPLAY OUTPUTS; ONE MUST BE DISPLAY PORT; MUST INCLUDE 2 USB INPUTS FOR MOUSE & KEYBOARD; MUST INCLUDE 220 V ADAPTER	30	Ea		

133	0701452	MODULE: TYPE: INTERFACE; INPUT: 24 VDC; 4-20 MA; OUTPUT: TCP/IP OPC; POWER SOURCE: 5 VDC; APPLICATION: SICOMP M PEF7; DIMENSIONS: WD 20 X HT 235 X DPT 163 MM; REFERENCE NO: INET-SI-132	20	Ea		
134	0717226	MODULE, POWER SUPPLY: TYPE: AUTOMATION PLATFORM; INPUT: 20-30 VDC; OUTPUT: 5.1 VDC; SPECIFICATION: CSA C22.2 NO 142; HARDWARE: COMPUTER; SUPPL P/N: 140CPS21400	30	Ea		

The total of the Prices

### PART 3: SCOPE OF WORK

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C3.1	<i>Purchaser's Goods Information</i>	
C3.2	<i>Supplier's Goods Information</i>	
Total number of pages		

## C3.1: PURCHASER’S GOODS INFORMATION

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## 1 Overview and purpose of the goods and services

The purpose of this document is to define a User Scope of Work requirement based on which the supply of goods and a service contract will be established between the *Purchaser* and the *Supplier*.

Matimba Power Station is expected to operate at EAF > 80% and It is therefore imperative that the successful and suitably qualified *Supplier* aligns his/ her organisation fully to these Scope of Work.

## 2 Specification and description of the goods

Supply and delivery of Modules and associated equipment to Matimba Power Station on as and when required basis for a period of five (5) years				
Item	Material	Description	QTY	UoM
1	0009579	MODULE: TYPE: BINARY OUTPUT; OUTPUT: 24 VDC 0.5 A; SUPPL P/N: 07AB63R1; FOR USE ON TSS	10	Ea
2	0121120	MODULE: TYPE: TURBO/BOILER THYRISTOR REVERSING ANALOG; POWER SOURCE: 380 VAC 3 PH 1.1 KW 50 HZ; SUPPL P/N: A3104360	10	Ea
3	0126008	MODULE: TYPE: SEPARATOR; APPLICATION: RELAY; SPECIFICATION: VDE0160; SUPPL P/N: GHR315-0001R1; REFERENCE NO: VDE 0160	15	Ea
4	0130766	MODULE: TYPE: TEMPERATURE TRANSMITTER; SUPPL P/N: M9047; PCB, ASSY	10	Ea
5	0130961	MODULE: TYPE: TRANSISTOR; SUPPL P/N: 1891203; CTT BOARD ASSEMBLY	10	Ea
6	0132432	MODULE, POWER SUPPLY: TYPE: PRECIPITATOR; SUPPL P/N: SCAFA118; REFERENCE NO: 3283/102/56; FOR USE ON PRECIPITATOR	10	Ea
7	0132465	MODULE: TYPE: ISOLATED PHOTO SWITCHING; SUPPL P/N: 6700191; REFERENCE NO: CLM8600; MODS	10	Ea
8	0132591	MODULE: TYPE: EARTH FAULT; APPLICATION: PCB; SUPPL P/N: SP305; FOR PRINT CIRCUIT BOARD	20	Ea
9	0132622	MODULE, POWER SUPPLY: TYPE: PRINTED CIRCUIT BOARD; OUTPUT: 24 VDC; REFERENCE NO: T7CDEF; PSV5-24 1SS 3; PSU 5-24	10	Ea
10	0132816	MODULE: TYPE: IMPEDANCE EQUALIZER; SUPPL P/N: RT481B; REFERENCE NO: GNT7081299R0001; PRINTED CIRCUIT BOARD	10	Ea
11	0132817	MODULE, POWER SUPPLY: TYPE: H2 ELECTRO; SUPPL P/N: KC480A; REFERENCE NO: GNT0102700R1; GN7552832	10	Ea
12	0132836	MODULE, POWER SUPPLY: TYPE: POWER BRIDGE; INPUT: 380/500 VAC; OUTPUT: 26.5/25/11 VDC 0.21/0.9 A; SUPPL P/N: PR25-14; REFERENCE NO: 029059302; 18-14:25V 0.02A, 15-11:11V0.90A, 16-12:11V 0.90A, 17-13:26.5V 0.21A	10	Ea
13	0133354	MODULE: TYPE: LIGHT DUTY RELAY; REFERENCE NO: 103.111.486.200; SRA10; WITH INPUT FOR LOGIC SIGNALS, SWITCHING CAPABILITY 60V/1A/30W, PART OF AV 5 CONTROL SYSTEM	10	Ea

14	0133600	MODULE: TYPE: RMR CARD; DIMENSIONS: WD 64 X LG 98 MM; REFERENCE NO: 415864; (M-RET CAR)	10	Ea
15	0135121	MODULE: TYPE: SWITCH CONTROL; REFERENCE NO: 0479845; 66011-4-0776097-2; HA01; PRINTED CIRCUIT BOARD	15	Ea
16	0137964	MODULE: TYPE: REVERSE ROTATION DETECTOR DRIVER; REFERENCE NO: 41.04.A4.00.00.00	15	Ea
17	0139512	MODULE: TYPE: RELAY CONTROL; REFERENCE NO: 66011-4-0776038-3; RL01; 0479763; PRINTED CIRCUIT BOARD	15	Ea
18	0139524	MODULE: TYPE: OPTO-COUPLER; POWER SOURCE: 24 VDC; SUPPL P/N: ERP-015/24V; FOR USE ON ASH SPREADER AND STACKER	15	Ea
19	0147768	MODULE: TYPE: SCANNER I/O; DRAWING NO: 1775-S4B REV 1; REFERENCE NO: 1775S4B; MESSAGE HANDLING, INDICATORS FOR PASS, FAIL CH1/CH2/CH3/CH4, PLUG CONNECTIONS FOR BACKUP AND CH5	10	Ea
20	0157925	MODULE: TYPE: ALARM CIRCUIT INTERFACE; REFERENCE NO: 7MT00693; G53300-R13-L1-88 LINE 356; G53300-R13-L1-88; PRINTED CIRCUIT BOARD	10	Ea
21	0157926	MODULE: TYPE: DIRECT CURRENT FAIL/BACKUP; REFERENCE NO: G5300-R15-L1-2-88; G53 300-R15-L1-2-88; 7MT00693; PRINTED CIRCUIT BOARD; LINE 357	10	Ea
22	0157931	MODULE: TYPE: DUAL MAKE/BRAKE; DIMENSIONS: WD 14 X LG 25 X THK 5 MM; REFERENCE NO: 2-767-001; JACK, MENTOR, 5 PINS	10	Ea
23	0186386	MODULE: TYPE: CUBICLE SUPPLY; POWER SOURCE: 24 V; SUPPL P/N: 6FP1707-OB VA61	10	Ea
24	0215551	MODULE, POWER SUPPLY: INPUT: 240 VAC; OUTPUT: 24 VDC 10 A; SUPPL P/N: PS-1AC/24VDC/10; DIMENSIONS: WD 60 MM X HT 130 MM X DP 125 MM, ORDER NUMBER: 2866763, PHOENIX CONTACT BRAND ONLY; QUINT	10	Ea
25	0218497	MODULE: TYPE: ELECTRONIC TRIP; POWER SOURCE: 24 VDC; OEM P/N: EAM15A31-99-815; SUPERSEDED BY 0553227; SUPPL P/N: EAM 15A 31-99-815; 9210-004; REFERENCE NO: SZ50013813	5	Ea
26	0218847	MODULE: TYPE: STRAIN GAUGE METER; INPUT: 0.24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 250 V 50 HZ; SUPPL P/N: PAXCDL 10; PAXS 0000; COMPLETE WITH ANALOG OUTPUT CARD, USED ON ASH CONDITIONER MASS METERS	10	Ea
27	0218901	MODULE: TYPE: THYRISTOR; INPUT: 380 V; OUTPUT: 380 V; SUPPL P/N: V1/V2/V3; 6SY7000-OAA88; 77250N16KOF; 6SE7087-6JK60; LINE SIDE, 2 X 250A, 1600V, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL	10	Ea
28	0218902	MODULE: TYPE: INVERTER; INPUT: 380 VAC 50 HZ; SUPPL P/N: A29; 6SE7087-6JK60; 6SE7033-2EG84-1JF0; PRODUCTS WITH DESIGN VERSION A, GATING IGD5, FOR UNIT 3 PHASE, 380-460VAC, 50/60HZ, 260A AND 3 AC 500-575V, 50/60HZ, 156A, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL	15	Ea

29	0218903	MODULE: TYPE: STANDARDIZING; INPUT: 380 VAC 3 PH; SUPPL P/N: A26; 6SE7087-6JK60; 6SE7032-6EG84-1BH0; ABO FOR UNITS 3 PHASE, 380-460VAC AND 510-620VDC, 260A, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL, MASTERDRIVE	20	Ea
30	0218905	MODULE: TYPE: INTERFACE CARD; INPUT: 380 VAC 3 PH; SUPPL P/N: 6SE7087-6JK60; A20; 6SE7038-6GL84-1BG0; PRODUCTS WITH DESIGN VERSION A, INVERTER INTERFACE MODULE IVI, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL	15	Ea
31	0218906	MODULE: TYPE: TRANSISTOR; INPUT: 380 VAC 3 PH; SUPPL P/N: 6SY7000-OAC82; 300A, 1200V, USED ON COAL STACKER RECLAIMER VARIABLE SPEED DRIVE AC LONG TRAVEL; A100/A101/A110/A111/A200/A210/A210/A211/A300/IGBT; BSM300GA 120 DN2S; SIEMENS SIMOVERT MASTERDRIVE 6SE7087-6JK60	20	Ea
32	0224277	MODULE: TYPE: BATTERY; INPUT: 5.1 VDC 15 MA; OUTPUT: 3.6 VDC 20 MA; SUPPL P/N: 96391474; REFERENCE NO: 1756-BATM A; J SERIES	10	Ea
33	0224278	MODULE: TYPE: CONTROLNET ADAPTOR I/O; INPUT: 0-10 MA; OUTPUT: 0-10 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 1771-ACN15	10	Ea
34	0224887	MODULE, POWER SUPPLY: TYPE: CONTROL; INPUT: 230 VAC; OUTPUT: 24 VDC; SUPPL P/N: 6ES7307-1KA01-OAAO	10	Ea
35	0229850	MODULE, POWER SUPPLY: INPUT: 220 VAC; OUTPUT: 12/24 VDC; REFERENCE NO: 410-500	10	Ea
36	0233693	MODULE: TYPE: PROGRAMMABLE LOGIC CONTROLLER; INPUT: 24 V; OUTPUT: 24 V; POWER SOURCE: 24 V; SUPPL P/N: 6ED1052-1HB08-0BA1; 6ED1052-1HB08-0BA1	15	Ea
37	0238822	MODULE, POWER SUPPLY: TYPE: GAS 1 PLANT; INPUT: 120-230 VAC; OUTPUT: 24 VDC 20 A; SUPPL P/N: 6EP1336-2BA00; USED ON GAS 1 PLANT	15	Ea
38	0242073	MODULE: TYPE: BACKPLANE POWER; INPUT: 5-12 VDC; OUTPUT: 5 VDC; POWER SOURCE: 5 VDC; DIMENSIONS: WD 157 X LG 257 X HT 90 MM; REFERENCE NO: CP3; PACKED IN A BOX WITH ID LABEL, SUITABLE FOR ALL CONDAIR CP3 UNITS, CODE: 2530144	10	Ea
39	0248214	MODULE: TYPE: HIGH RIPPLE ALARM; POWER SOURCE: 24 VDC; APPLICATION: STATIC CHARGER 24 V AT 10 A; SUPPL P/N: SP332	15	Ea
40	0248215	MODULE: TYPE: MOTHERBOARD; POWER SOURCE: 220 V; APPLICATION: STATIC CHARGER; SUPPL P/N: 610A	10	Ea
41	0248217	MODULE: TYPE: MOTHERBOARD/CARD; POWER SOURCE: 24 V; APPLICATION: CHARGER 24 V 45 A; MANUF P/N: 6104 MB	10	Ea
42	0248218	MODULE: TYPE: LOW VOLTAGE; INPUT: 220 VAC; OUTPUT: 24 V; POWER SOURCE: 24 VDC; APPLICATION: ALLIED CHARGER; SUPPL P/N: SP300-32; FOR USE ON 24 V AT V100A	20	Ea
43	0248275	MODULE: TYPE: MOTHER BOARD 3 PH; APPLICATION: CHARGER 24-100 A; REFERENCE NO: 6300C	15	Ea

44	0248276	MODULE, POWER SUPPLY: TYPE: BOARD 3 PH; APPLICATION: CHARGER 24 V 100 A; REFERENCE NO: 6300C	15	Ea
45	0248277	MODULE: TYPE: CONTROL CARD, 3 PH; OUTPUT: 24 V; POWER SOURCE: 220 VAC; APPLICATION: ALLIED CHARGER 24 V 100 A; SUPPL P/N: BR 500DB-4	15	Ea
46	0248278	MODULE: TYPE: SURGE SUPPRESSION CARD; POWER SOURCE: 24 V 100 A; APPLICATION: CHARGER; REFERENCE NO: BR3	20	Ea
47	0248279	MODULE: TYPE: SURGE SUPPRESSION CARD; OUTPUT: 24 V; POWER SOURCE: 220 VAC; APPLICATION: CHARGER 24 V 45 A/STATIC CHARGER 24 V 50 A; MANUF P/N: BR7	10	Ea
48	0248280	MODULE: TYPE: CONTROL CARD, 1 PH; POWER SOURCE: 24 V 50 A; APPLICATION: STATIC CHARGER; SUPPL P/N: BR5000A-4	10	Ea
49	0250847	MODULE, COMMUNICATION: TYPE: SATT; INPUT: 5 V; OUTPUT: 100-400 MA; APPLICATION: CARD SOOTBLOWER SYSTEM; SOFTWARE: CONTROLNET PROTOCOL, RACH, 200-RACN; REFERENCE NO: PM 864 AK01	15	Ea
50	0253203	MODULE: TYPE: CONTROL; INPUT: 24 V; OUTPUT: 24 V; POWER SOURCE: 24 V; APPLICATION: PLC; SUPPL P/N: 70BK06A-E; REFERENCE NO: HESG 332194 R0001	10	Ea
51	253440	MODULE, COMMUNICATION: TYPE: ETHERNET, 5 PORT; APPLICATION: DHP/SO3 PLANT COMMS, TWO FIBER OPTIC PORTS, SUPER-FAST FAULT TOLERANT RING REDUNDANCY; SOFTWARE: PRE-CONFIGURED TRUE PLUG AND PLAY SIMPLICITY; SPECIFICATION: MIL-STD-1275; REFERENCE NO: ET-5RS; PRE-CONFIGURED FOR TRUE PLUG & PLAY SIMPLICITY, POWER PROTECTION, COMPACT LOW-PROFILE PACKAGING THAT FITS IN TIGHT SPACES & SHALLOW ENCLOSURES, INDUSTRIAL ETHERNET, ETHERTRAK, SIXNET	15	Ea
52	0255944	MODULE, POWER SUPPLY: TYPE: DISTRIBUTION; INPUT: 24 VDC; APPLICATION: EXCITATION; SUPPL P/N: 3BHE021481R0001; MICO ADVANCED	20	Ea
53	0559323	MODULE: TYPE: CONVERTER CONTROL; INPUT: UDC:1.133V; 1A; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC 2 A; APPLICATION: EXCITATION SYSTEM; DIMENSIONS: WD 73.5 X HT 142 X DP 373 MM; MANUF P/N: PC D231 B: PEC80-CCI; REFERENCE NO: 3BHE025541R0101; UNITROL 6800	10	Ea
54	0559328	MODULE: TYPE: ADVANCED POWER DISTRIBUTION; INPUT: 24 VDC; OUTPUT: 24 VDC 5 A; POWER SOURCE: 24 VDC; SPECIFICATION: EN 61000-6-2; MANUF P/N: 9000-41034- 0100600; REFERENCE NO: 3BHE021481R0001; ELECTRONIC AUXILIARY; FUNCTION: SWITCHING AND MONITORING	20	Ea
55	0565079	MODULE: TYPE: BUS COUPLER; POWER SOURCE: 24 VDC; APPLICATION: CONTROL P14 DCS; REFERENCE NO: 70BK03C-E	15	Ea
56	0577921	MODULE: TYPE: PROGRAMME DISPLAY UNIT; APPLICATION: MOTOR PROTECTION UNIT; MANUF P/N: SPCJ 4D34-AA; REVISION P CARD; FOR SPAM 150C RELAY	15	Ea

57	0580171	MODULE: TYPE: INTERFACE; POWER SOURCE: 24 VDC; MANUF P/N: 3BHE022294R0103; REFERENCE NO: GFD233	50	Ea
58	0586589	MODULE: TYPE: BINARY SIGNAL; APPLICATION: STACKER & RECLAIMER; MANUF P/N: 6SE7090-OXX84-3EA0; SIMOVERT MASTERDRIVES; SERIAL I/O; FOR ANALOG & BINARY SIGNALS SCI1	15	Ea
59	0586590	MODULE: TYPE: MAIN THYRISTOR; APPLICATION: STACKER/RECLAIMER; MANUF P/N: 6SY7000-0AA88; MASTER DRIVES; SKKT; 2 X 273A; 1600V	15	Ea
60	0597474	MODULE: TYPE: ANALOG OUTPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7232-4HD32-OXBO; SIMATIC S7-1200; SM 1232; 4 AO; +/- 10 V; 14 BIT RESOLUTION OR 0-20 MA/4-20 MA 13 BIT RESOLUTION	15	Ea
61	0597475	MODULE: TYPE: COMPACT CPU; INPUT: 2.5-10 V 4-20 MA; POWER SOURCE: 24 VDC; OEM P/N: 6ES7214-1AG31-OXBO; SIMATIC S7-1200; CPU 1214C; ON-BOARD I/O; 14DI; 10DO; 2 A1; PROGRAM/DATA MEMORY; 75 KB	20	Ea
62	0597476	MODULE: TYPE: LOGO MODULAR; POWER SOURCE: 12-24 VDC; APPLICATION: CONVEYOR BELTS; SPECIFICATION: EAN 4034106029371; COMMERCIAL SIZE: WD 4 X LG 3 X HT 3.5 MM; OEM P/N: 6ED1052-1MD08-OBA1; 12/24RCE; DISPLAY: PU/I/O; RELAY: 8DI (4AI)/4 DO; MEM 400 BLOCKS EXPANDABLE; ETHERNET BUILT IN WEB-SERVER: DATALOG MICRO SD CARD FOR LOGO; SOFT COMFORT V8 PREVIOUS PROJECT USABLE	100	Ea
63	0597477	MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OEM P/N: 6ES7231-4HF32-OXBO; SIMATIC S7-1200; SM 1231; 8AI; +/- 10V; +/-2.5V; 0-20MA; 12BIT + SIGN OR 13BIT DC	15	Ea
64	0597478	MODULE: TYPE: DIGITAL INPUT/OUTPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7223-1BL32-OXBO; SIMATIC S7-1200; SM1223; 16DI; SINK; SOURCE; TRANSISTOR 0.5 A	20	Ea
65	597835	MODULE: TYPE: REPLACEMENT ELECTRONICS; OEM P/N: IBS STME 24 BK-T-2754367; REFERENCE NO: 2754367; PACKING UNIT: (1PC); IP20; DIN RAIL; INTERBUS-S; 24VDC; IDENT: 08	100	Ea
66	0599435	MODULE: TYPE: EXPANSION; POWER SOURCE: 24 VDC; DIMENSIONS: WD 35.5 X LG 90 X THK 58 MM; OEM P/N: 6ED1055-1MA00-0BA2; PU: DC 12/24 V; 2 AI; 0-10 V OR 0/4-20 MA FOR LOGO 8	15	Ea
67	0599438	MODULE: TYPE: BUS COUPLER; APPLICATION: PRO CONTROL P13 SYSTEM; OEM P/N: 70BK03C-E/R1; LOCAL BUS/SERIAL INTERFACE; RS232; FIRMWARE HESG 492114	15	Ea
68	0602641	MODULE, COMMUNICATION: TYPE: PROCESSOR; OEM P/N: 6GK11143-OTB01; MODEL NO: CP 1430TF	30	Ea
69	0602990	MODULE: TYPE: ANALOG; INPUT: +/- 20 MA; +/-10 V; OUTPUT: DIGITAL; POWER SOURCE: 24 V 2 A; APPLICATION: GENERATOR EXCITATION CONTROL; DIMENSIONS: WD 141.4 X LG 370 X 73 DP MM; SPECIFICATION: IEC 60255-21; IEEE 344-1987; COMMERCIAL SIZE: 6; OEM P/N: 3BHE032025R101; REFERENCE NO: PC D232; INPUT/OUTPUT; FOR UNITROL 6800	20	Ea

70	609659	MODULE: TYPE: OSCILLATOR/DEMODULATOR; OUTPUT: -2 TO -18 VDC; POWER SOURCE: 24 VDC; DIMENSIONS: WD 56 X LG 83 X HT 25 MM; SPECIFICATION: DIN EN 10204; MODEL NO: DS821.OD130; DRIVER FOR STANDARD DISPLACEMENT SENSOR SERIES	15	Ea
71	616000	MODULE: TYPE: BOARD, G5 5MPS; APPLICATION: CONVEYOR BELTS; REFERENCE NO: 48V4 MK8 PS1A2	15	Ea
72	0617144	MODULE: TYPE: AC FILTER; INPUT: 85-264 VAC; POWER SOURCE: 230 VAC; APPLICATION: CONTACT POWER SUPPLY; DIMENSIONS: WD 114 X HT 105 X THK 35 MM; SPECIFICATION: EN60950; REFERENCE NO: 2319919; ME-MAX-NEF/QUIT20A; NOMINAL INPUT VOLTAGE 10-230 VAC; INPUT CURRENT 7 A; THE FREQUENCY RANGE IS 45-65 HZ; INSULATION WITH STAND 250 V/6 KV	15	Ea
73	0617698	MODULE: TYPE: SPLIT UNIT; APPLICATION: AIRCON; SPECIFICATION: IPM PCB501/PHH1NO FUJ17MD75 RA120; MODEL NO: HP36HNI	20	Ea
74	0620893	MODULE: TYPE: EXPANSION; INPUT: 5-8.5 VDC; OUTPUT: 5 A 100 MA; SPECIFICATION: IEC 61131; REFERENCE NO: 6ED1055-1MM00-0BA2	30	Ea
75	0621710	MODULE: TYPE: UHF DMR, DASH/PSU; OEM P/N: MDM28QNN9VA2ANEDM4PSU; DM4600E	30	Ea
76	0621716	MODULE: TYPE: UHF DMR, DASH; OEM P/N: MDM28QNN9VA2ANE; DM4600E	20	Ea
77	0621719	MODULE: TYPE: VHF DMR; OEM P/N: MDM28JNN9VA2ANEDM4PSU; DASH AND PSU; DM4600E	20	Ea
78	622250	MODULE: TYPE: TRANSRECEIVER; APPLICATION: PORTABLE RADIO; DIMENSIONS: WD 65 X LG 150 X DP 45 MM; SPECIFICATION: ETSI; OEM P/N: SPU8040T3UHF	20	Ea
79	0623547	MODULE: TYPE: BINARY O/P EXPANSION; INPUT: (4) DIGITAL; POWER SOURCE: 24 VDC; DIMENSIONS: WD 35.5 X HT 90 X DPT 68 MM; REFERENCE NO: 6ED1055-1MB00-0BA2	20	Ea
80	0625920	MODULE: TYPE: DISPLAY GRAPHICS CARD; NVIDIA NVS; 510 QUAD; INTEL PENTIUM 4 OR XEON PROCESSOR HIGHER AMD OPTERON PROCESSOR OR HIGHER RAM 1GB	20	Ea
81	0625992	MODULE: TYPE: DUAL DISPLAY GRAPHIC CARD; APPLICATION: FIRE PROTECTION; REFERENCE NO: GT7302GBDDR P01-E2.0; NVIDIA GE FORCE; HDMI + DL-DVH	20	Ea
82	0629290	MODULE: TYPE: INTERFACE PROFIBUS DP; APPLICATION: CPU 412-2 CPU INTERFACE MPI/DP 12 MBIT/S; OEM P/N: 6ES7412-2XK07-0AB0\CPU412-2	30	Ea
83	0629291	MODULE: TYPE: DIGITAL OUTPUT; OUTPUT: 24 VDC 0.5 A; APPLICATION: STACKER/SPREADER DHP; OEM P/N: 6ES74221BL000AA0; SIMATIC, OPTICAL, ISOLATED, 32 DO	40	Ea
84	0629292	MODULE, POWER SUPPLY: TYPE: MEDIA CONVERTER; INPUT: 24 VDC; OUTPUT: 24 V 0.1 A; APPLICATION: DHP STACKER/SPREADER; OEM P/N: 6GK51011BC002AA3	15	Ea

85	0629293	MODULE: TYPE: PROFIBUS; APPLICATION: VSD MONITOR MICRO MASTER 4; OEM P/N: 6SE6400-1PB00-0AA0; E-STAND (VERSION) B03/1.03; WEIGHT 0.30 KG, 66 LBS;TEMP RANGE - 10 DEG C TO + 50 DEG C; IP20, MM 4 C/L LISTED ACCESSORY	50	Ea
86	0629294	MODULE, COMMUNICATION: TYPE: MODUS SOFTWARE RS422/485; APPLICATION: DHP SIMATIC S7-300; OEM P/N: 6ES7341-1CH01-0AE0; CP 341 PROCESSOR WITH INTERFACE; INCLUDING CONFIGURE PACKAGE ON CD	30	Ea
87	0629295	MODULE: TYPE: ANALOG INPUT; APPLICATION: STACKER/SPREADER DHP, SIMATIC 8 CHANNEL; OEM P/N: 6ES74311KF000AB0	15	Ea
88	0629513	MODULE: TYPE: SIMATIC; APPLICATION: STACKER/SPREADER COAL; OEM P/N: 6ES74001TA010AA0; SIMATIC, UR 1 RACK, CENTRALIZED AND DISTRIBUTED WITH 18 SLOTS 2 REDUNDANT PS PLUGGABLE	20	Ea
89	0632912	MODULE: TYPE: DIGITAL O/P, SM 322; APPLICATION: DHP SIMATIC S7-300; MANUF P/N: 6ES7322-1HH01-0AA0; REFERENCE NO: C-B6TR0249; OPTICALLY ISOLATED 16DO; RELAY CONTACTS, 1 X 20 PIN; AC 120/230V; SIMATIC	20	Ea
90	0632914	MODULE: TYPE: DIGITAL OUTPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7322-1BL00-0AA0	20	Ea
91	632916	MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; OUTPUT: 13-30 V AT 7 MA; POWER SOURCE: 24 VDC; APPLICATION: DEGRITTING SUMP; DIMENSIONS: WD 40 X HT 125 X DP 120 MM; SPECIFICATION: IEC 61131; COMMERCIAL SIZE: SM 321; OEM P/N: 6ES7321-1BL00-0AA0; REFERENCE NO: S7-300; OPTICALLY ISOLATED 32DI; 1 X 40 PIN	10	Ea
92	0632917	MODULE: TYPE: CENTRAL PROCESSING UNIT; INPUT: 750 MA; OUTPUT: 20.4-28.8 VAC; POWER SOURCE: 24 VDC; APPLICATION: DHP SIMATIC S7-300; DIMENSIONS: WD 40 X HT 125 X DP 130 MM; SPECIFICATION: DIN EN 10204; COMMERCIAL SIZE: 315-2 PN/DP; OEM P/N: 6ES7315-2EH14-0AB0; REFERENCE NO: S7-300; 384 KBYTE WORKING MEMORY; INTERFACE MPI/DP 12MBIT/S; WITH 2 PORT SWITCH MICRO MEMORY CARD NECESSARY	10	Ea
93	0632918	MODULE, COMMUNICATION: TYPE: CONNECTION; INPUT: 24 VDC; OUTPUT: 5 VAC DC 1.4 A; APPLICATION: SIMATIC S7-400; HARDWARE: S7-400; SOFTWARE: PROCESSOR; SPECIFICATION: ISO; OEM P/N: 6GK7443-1EX30-0XE0; PROCESSOR CP443-1;TO INDUSTRY ETHERN, VIA ISO, TCP/IP AND UDP; S7-COMM, FETCH/WRITE; SEND/RCV WITH & W/O RFC1006, MULTICAST, PROFINET IO-CONTROLLER, DHCP, SNMP V2, WEB; DIAGNOS, INITIALIZATION VIA LAN	10	Ea
94	0632919	MODULE, COMMUNICATION: TYPE: OPTICAL LINK; APPLICATION: STACKER/SPREADER DHP; OEM P/N: 6GK15032CB00; PB OLM/G11 V4.0 OPTICAL LINK MODULE W. 1 RS485 AND 1 GLASS-FOC-INTERFACE (2 BFOC-SOCKETS); WITH SIGNAL. CONTACT AND MEASURING OUTPUT	10	Ea

95	0632920	MODULE: TYPE: REPEATER RS485; APPLICATION: DHP SIMATIC DP; OEM P/N: 6ES7972-0AA01-0XA0; SIMATIC DP; RS485 REPEATER FOR THE CONNECTION OF PROFIBUS/MPI BUS SYSTEMS WITH MAX. 31 NODES; MAX. 12 MBIT/S; DEGREE OF PRO-TECTION IP20	20	Ea
96	0632921	MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; OUTPUT: 13-30 VDC 7 MA; POWER SOURCE: 24 VDC; APPLICATION: LP 2 FRONT SHAFT VI; DIMENSIONS: WD 25 X HT 290 X DP 210 MM; SPECIFICATION: ISO; COMMERCIAL SIZE: SM 421; OEM P/N: 6ES7421-BL01-OAAO; REFERENCE NO: S7-400; SM 421 DIGITAL INPUT MODULE; OPTIC. ISOLATED, 32 DI, 24 VDC	25	Ea
97	0632923	MODULE: TYPE: ANALOG I/P; INPUT: 3.2 TO 20 MA; APPLICATION: STACKER/SPREADER DHP; OEM P/N: 6ES73317KF020ABO; SIMATIC S7-300 SERIES PLC I/O MODULE 8 X I/O, 24 V DC, 125 X 40 X 120 MM	20	Ea
98	0632924	MODULE: TYPE: ANALOG INPUT; POWER SOURCE: 24 VDC; OEM P/N: 6ES7331-7KF02-OABO; REFERENCE NO: SM 331	20	Ea
99	0632925	MODULE: TYPE: ANALOG OUTPUT; INPUT: 60-240 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: BACKPLANE BUS; DIMENSIONS: WD 40 X HT 125 X DP 120 MM; SPECIFICATION: ISO; COMMERCIAL SIZE: SM 332; OEM P/N: 6ES7332-5HD01-0AB0; OPTICALLY ISOLATED, 4 AO, U/I; DIAGNOSTICS; RESOLUTION 11/12 BITS, 20 PIN; REMOVE/INSERT W. ACTIVE	15	Ea
100	0632927	MODULE, COMMUNICATION: TYPE: PROCESSOR; INPUT: 24 VDC; APPLICATION: CONNECTING; OEM P/N: 6GK7343-1CX10-0XE0; SIMATIC NET; CP 343-1 LEAN COMMUNICATION PROCESSOR FOR CONNECTING SIMATIC S7-300 TO IND. ETHERNET VIA TCP/IP AND UDP; MULTICAST; SEND/RECEIVE W. AND W/O RFC1006; FETCH/; RITE;S7-COMMUNICATION(SERVER) PROFINET IO-DEVICE; INTEGRATED 2-PORT SWITCH ERTEC 200; BG EXCHANGE W/O PG, SNMP DIAGNOSTICS; INITIALIZ. VIA LAN; 2 X RJ45 CONNECT. FOR LAN WITH 10/100 MBIT/S	15	Ea
101	0632928	MODULE: TYPE: COMMUNICATIONS PROCESSOR; DIMENSIONS: WD 25 X HT 290 X DP 210 MM; COMMERCIAL SIZE: CP 443-1; OEM P/N: 6GK7443-1EX11-0XE0	20	Ea
102	0633359	MODULE: TYPE: MICRO MASTER 4; APPLICATION: VSD MONITOR; SPECIFICATION: EN4019169450805; OEM P/N: 6SE6400-0APOO-0AA1; MICROMASTER 4 ADVANCED OPERATOR PANEL (AOP) DIGITAL FACE, ADVANCED OPERATOR PANEL; E-STAND (VERSION) A05/1.60, WEIGHT 0.30 KG/0.66 LBS, TEMP RANGE -10 DEG C TO + 50 DEG C; PROTECTION IP 20	15	Ea
103	0636630	MODULE: TYPE: ANALOG INPUT; APPLICATION: SIMATIC S7-300; DIMENSIONS: WD 13.2 X LG 14.7 X HT 5.1 MM; SPECIFICATION: EAN 4025515072027; COMMERCIAL SIZE: ST73; OEM P/N: 6ES7331-7PF11-0AB0; ANALOG INPUT SM 331; OPTICALLY ISOLATED; 8 AI THERMOCOUPLE; TYPE B; E; J; K; L; N; R; S; T TXK/TXK (L) ACCORDING GOST 16 BIT; 50 MS; 1 X 40 PIN	10	Ea
104	0636997	MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; POWER SOURCE: 24 VDC; OEM P/N: 6ES7321-1BH02-0AA0	10	Ea

105	0636998	MODULE: TYPE: ANALOG; OEM P/N: 6ES7332-5HF00-0AB0	20	Ea
106	0639248	MODULE: TYPE: ANALOG OUTPUT; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X HT 262 X DPT 176 MM; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD; WIDTH 4 PITCH; OEM P/N: 9210-002; 9222-011; MANUF P/N: 50-60-983; REFERENCE NO: AA16V00AF; D/A CONVERTER RESOLUTION 12 BIT; ME X012 SN	15	Ea
107	0639252	MODULE: TYPE: ANALOG INPUT; INPUT: 0-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X HT 262 X DPT 176 MM; SPECIFICATION: DIN EN61000-4-2; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD; WIDTH 4 PITCH; OEM P/N: 9210-003; 9222-013; MANUF P/N: 50-61-373; REFERENCE NO: AE16V00DF50-61-370; ME X012 SN	15	Ea
108	0639254	MODULE: TYPE: BINARY OUTPUT; OUTPUT: 24 V 50 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; MANUF P/N: 50-60-593; REFERENCE NO: DA64V 01AF 64BA 24V3 Z	15	Ea
109	0639255	MODULE: TYPE: IP/OP BINARY; INPUT: 24 V 3.3 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; OEM P/N: 9210-007; MANUF P/N: 50-61-663; REFERENCE NO: SZ50013805; DEAIN 01AF 50-61-660; TYPE: DIGITAL I/O; ME X012 SN	15	Ea
110	0639258	MODULE: TYPE: PROCESSOR; INPUT: 266 MHZ; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; OEM P/N: 9210-021; MANUF P/N: UMFPR60HF50-61-384; 50-61-387	15	Ea
111	0639259	MODULE: TYPE: SUBNET BUS COUPLER (16 TN); POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X LG 262 X DPT 176 MM; SPECIFICATION: DIN EN 61000-42; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD WIDTH 4 PITCH; OEM P/N: 50-60-033; REFERENCE NO: UVIEW 10EF/50-60-033; SZ50014080; 16TN/RS232	15	Ea
112	639260	MODULE: TYPE: CIRCUIT BREAKER; INPUT: 24 VDC; OUTPUT: 15 A; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 106.34 X LG 128.4 X DPT 194 MM; SPECIFICATION: DIN EN50082/DIN EN55011; COMMERCIAL SIZE: 3 HEIGHT 21 PITCH; OEM P/N: EAM15A 2V3 (31-99-815); REFERENCE NO: SZ50013813	20	Ea
113	0639261	MODULE: TYPE: OVERSPEED MONITOR; INPUT: 8-25 000 HZ; POWER SOURCE: 24 VDC; APPLICATION: TURBINE OVERSPEED PROTECTION SYSTEM; DIMENSIONS: WD 20 X LG 262 X DPT 176 MM; SPECIFICATION: VGB R 103 M; COMMERCIAL SIZE: DOUBLE-EUROPE 6HE 5TE; OEM P/N: SZ50010991; REFERENCE NO: DW02-ST2; CURRENT CONTROL RANGE: 0.4 AMP (CODING 1:A); NUMBER OF TRIGGER WHEEL TEETH: 200 (CODING 2: F)	30	Ea

114	0639262	MODULE: TYPE: SOLENOID VALVE CONTROL; OUTPUT: 1.5 A 320 HZ; POWER SOURCE: 20-30 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20.32 X HT 133.35; SPECIFICATION: DIN 41612; COMMERCIAL SIZE: EUROPEAN FORMAT 3 HEIGHT; 4 PITCH; OEM P/N: ANS MV02 (31-99-802); REFERENCE NO: ANS MV 31-99-801; SZ50013812; PULSE-WIDTH MODULATED	20	Ea
115	0639263	MODULE: TYPE: BINARY INPUT; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20.32 MM; OEM P/N: 9210-016; MANUF P/N: K16IN01AF 50-60-400; 50-60-403; SUPPL P/N: K16INOIAF/50-60-403; REFERENCE NO: SZ50013804; FOR CHANGE OVER CONTACTS; WECHSLER 24VINT	20	Ea
116	639292	MODULE: TYPE: CONTROL/VARIABLE SPEED DRIVES; INPUT: 4-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; DIMENSIONS: WD 20 X HT 262 X DP 176 MM; SPECIFICATION: DIN EN61000-4-4; COMMERCIAL SIZE: DOUBLE HEIGHT EUROCARD WIDTH 4 PITCH; OEM P/N: 9222-014; 50-60-153; REFERENCE NO: AEA8 01CF	20	Ea
117	0640339	MODULE: TYPE: FIRMWARE EPROM; INPUT: 5 VDC; OUTPUT: 5 VDC; POWER SOURCE: 5 VDC; APPLICATION: I/O; OEM P/N: EAS S61; REFERENCE NO: Z50016205	20	Ea
118	0646753	MODULE: TYPE: RAIL MOUNT TEMPERATURE TRANSMITTER; OUTPUT: 4-20 MA; POWER SOURCE: 10.5-42 VDC; APPLICATION: THERMOCOUPLE/RESISTANCE SENSOR; OEM P/N: T32.3S.000-Z; REFERENCE NO: S 813995 V2.21	30	Ea
119	0646754	MODULE: TYPE: VIBRATION MONITORING; INPUT: -30 TO 30 VDC; OUTPUT: 4 TO 20 MA; POWER SOURCE: 24 VDC; DIMENSIONS: WD 230.5 X LG 336 X HT 50 MM; SPECIFICATION: VIB310; OEM P/N: 6DL2310-0XX14-1AX1; SPPA-D3000; FW: V2.11.30	20	Ea
120	0646755	MODULE: TYPE: VIBRATION PROCESSING; INPUT: +/-22 MA; +/-2 V; POWER SOURCE: 24 VDC; DIMENSIONS: WD 230.5 X LG 336 X HT 50 MM; SPECIFICATION: VIB320; OEM P/N: 6DL4320-0AA00; FW VERSION	20	Ea
121	0647198	MODULE, COMMUNICATION: TYPE: NETWORK; OUTPUT: 24 VDC; SPECIFICATION: EN 60068-2-6; OEM P/N: CX5020-0111; DIMENSION: WD 100MM X HT 106MM X DPT 92MM; PROGRAMMABLE LOGIC CONTROL (PLC); CPU MODULE 1.6GHZ	30	Ea
122	0655545	MODULE, POWER SUPPLY: TYPE: SWITCHMODE; INPUT: 220 VAC; OUTPUT: 24 VDC; APPLICATION: GENERATOR STATOR BAR TEMPERATURES; OEM P/N: T2PR-2222B1; POWER OUTPUT: 48 WATT; SHORT CIRCUIT PROTECTED; THERMAL OVERLOAD PROTECTION; 11 PIN BASE DIN RAIL MOUNT TYPE	20	Ea
123	0655547	MODULE, POWER SUPPLY: TYPE: POWER CONNECTOR UNIT; INPUT: 24 VDC; OUTPUT: 24 VDC; APPLICATION: GENERATOR STATOR BAR TEMPERATURE; OEM P/N: T2PR-3405	20	Ea

124	0655558	MODULE: TYPE: ISOLATED UNIVERSAL CONVERTER; INPUT: 0-150 DEG C; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: GENERATOR STATOR BAR TEMPERATURE; DIMENSIONS: WD 6.1 X LG 115 X HT 113 MM; OEM P/N: T2PR-3114; INPUT: RTD; TC; POTENTIOMETER; 0-10 V; 0/4-20 MA; OUTPUT: 0-10 V; 0/4-20 MA	20	Ea
125	0659515	MODULE, COMMUNICATION: TYPE: DIGITAL OUTPUT SM322; INPUT: 24 VDC; OUTPUT: 24 VDC; APPLICATION: COARSE ASH DEGRADING SUMP PUMP; SOFTWARE: SIMATIC S7-300; OEM P/N: 6ES7322-1BF01-0AA0; ISOLATED; 8DO; 2A; 1 X 20-POLE; SC-K5PV8015	20	Ea
126	0663356	MODULE: TYPE: PM240 POWER; INPUT: 380-400 V; OUTPUT: 400 V; APPLICATION: COAL RECLAIMER; DIMENSIONS: WD 350 X HT 634 X DP 316 MM; COMMERCIAL SIZE: FSF; MANUF P/N: 6SL3224-0BE34-5UA0; POWER FACTOR 0.85A; AMBIENT OPERATION TEMPERATURE 0-50 DEG C; IP 20/UL OPEN TYPE DEGREE OF PROTECTION; CONNECTION M8 BOLT	20	Ea
127	0668065	MODULE: TYPE: DIGITAL OUTPUT; POWER SOURCE: 24 VDC; APPLICATION: HYDRAULIC UNIT CONTROL; DIMENSIONS: WD 45 X HT 80 X DP 62 MM; REFERENCE NO: 6ES7222-1BF22-0XA0	20	Ea
128	0668066	MODULE: TYPE: CPU 224 COMPACT UNIT; INPUT: 24 VDC; APPLICATION: HYDRAULIC UNIT CONTROL; DIMENSIONS: WD 120.5 X HT 80 X DPT 62 MM; REFERENCE NO: 6ES7214-1A023-0XB0; 14 DI; 10 DO	50	Ea
129	0668067	MODULE: TYPE: ANALOG INPUT EM231; INPUT: 0-10 VDC; POWER SOURCE: 24 VDC; APPLICATION: HYDRAULIC UNIT CONTROL; DIMENSIONS: WD 71.2 X HT 80 X DPT 62 MM; REFERENCE NO: 6ES7231-0HC22-0XA0; 4 AI	15	Ea
130	0690753	MODULE, POWER SUPPLY: TYPE: VIBRATION MONITORING; INPUT: -30 TO 30 VDC; OUTPUT: 4-20 MA; SPECIFICATION: VIB310; SUPPL P/N: 6DL2310-0XX44-1AX1; SPPA-D3000; COMPATIBLE WITH 6DL2310-0XX22-1AX1 WITH FW: V2.11.15 & FPGA: P1.2.7	15	Ea
131	0697248	MODULE: TYPE: HYDRAULIC VALVE POSITION CONTROLLER; INPUT: 4-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; 19-30 V; APPLICATION: HP BYPASS REGULATING VALVE; DIMENSIONS: WD 163 X HT 51 X DP 111 MM; REFERENCE NO: RS232; 103.215.285.210; PVR10-10; 1 PV; 1 BLOCKING ELEMENT; 2 ADDITIONAL SOLENOIDS	10	Ea
132	0698144	MODULE: TYPE: THIN CLIENT; POWER SOURCE: 220 VAC; APPLICATION: HMI; DIMENSIONS: WD 116 X HT 177 X DP 29; REFERENCE NO: 5030/3040; 0J767W; TO BE USED WITH POWER EDGE R730 SERVERS THROUGH PCOIP & MICROSOFT RDP PROTOCOLS; MUST INCLUDE 2 DISPLAY OUTPUTS; ONE MUST BE DISPLAY PORT; MUST INCLUDE 2 USB INPUTS FOR MOUSE & KEYBOARD; MUST INCLUDE 220 V ADAPTER	30	Ea
133	0701452	MODULE: TYPE: INTERFACE; INPUT: 24 VDC; 4-20 MA; OUTPUT: TCP/IP OPC; POWER SOURCE: 5 VDC; APPLICATION: SICOMP M PEF7; DIMENSIONS: WD 20 X HT 235 X DPT 163 MM; REFERENCE NO: INET-SI-132	20	Ea

134	0717226	MODULE, POWER SUPPLY: TYPE: AUTOMATION PLATFORM; INPUT: 20-30 VDC; OUTPUT: 5.1 VDC; SPECIFICATION: CSA C22.2 NO 142; HARDWARE: COMPUTER; SUPPL P/N: 140CPS21400	30	Ea
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### 3 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.

None

### 4 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*.

As stipulated n the Scope of Work of this document

### 5 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*.

The goods supplied must be bubbled wrapped during transportation and delivery to site Matimba Power Station

### 6 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.

N/A

### 7 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.

As per Original Equipment Manufacturer (OEM)

### 8 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

## 9 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.

## 10 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.

## 11 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*.

## 12 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

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

### 14 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.

## 15 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.

## 16 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*

## 17 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.

## 18 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.

## 19 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*.

## 20 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.

**21 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.

**22 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].

**23 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 \_\_\_\_\_ ]

**24 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.

**25 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)

**The following Eskom Life Saving Rules applies when entering premises.**

- a. Open, isolate, earth, bond or and isolate before touch.
- b. Hook up at heights.
- c. Buckle up.
- d. Be sober.
- e. Permit to work.

## **26 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.

## **27 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.

## **28 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.

## **29 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.

**30 Procurement**

**31 Subcontracting**

**32 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*.

**33 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.

**34 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

**35 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.

**36 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).

5.1.1.

**37 List of drawings**

**38 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.

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