



NEC3 Supply Contract (SC3)

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

and
(Reg No. _____)

for **SUPPLY AND DELIVERY OF INSTRUMENTATION AND
CONTROL COMPONENTS (ONCE OFF) TO LETHABO
POWER STATION.**

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CONTRACT No.

PART C1: AGREEMENTS & CONTRACT DATA

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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:

The Supply and Delivery of Instrumentation and Control Components (Once Off) To Lethabo Power Station.

The tenderer, identified in the Offer signature block, has

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

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

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

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

Signature(s)

Name(s)

Capacity

**For the
tenderer:**

(Insert name and address of organisation)

Name &
signature of
witness

Date

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

Acceptance

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

The terms of the contract, are contained in:

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

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

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

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

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

Signature(s)

Name(s)

Capacity

**Power Station General Manager:
Lethabo Power Station**

**for the
Purchaser**

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

Name &
signature of
witness

Date

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 _____

Power Station General Manager: Lethabo Power Station

On behalf of *(Insert name and address of organisation)* _____

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

Name & signature of witness _____

Date _____

C1.2 SC3 Contract Data

Part one - Data provided by the *Purchaser*

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

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for Options	
		X2 Changes in the law X7: Delay damages X13: Performance bond X17: Low performance damages Z: Additional conditions of contract
	of the NEC3 Supply Contract (April 2013) ²	(If the December 2009 edition is to be used delete April 2013 and replace by December 2013)
10.1	The <i>Purchaser</i> is (name):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	011 800 8111
	Fax No.	N/A
10.1	The <i>Supply Manager</i> is (name):	
	Address	Lethabo Power Station Private Bag X 415 Vereeniging 1830
	Tel	+27 16 457 5267
	Fax	N/A
	e-mail	
11.2(13)	The <i>goods</i> are	Instrumentation and Control Components
11.2(14)	The following matters will be included in the Risk Register	Unavailability of Access to site due to road closure. Unavailability of personnel or resources to offload

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

• Industrial action onsite

11.2(15)	The Goods Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.	
11.2(15)	The Supply Requirements as part of the Goods Information is in	Annexure A to this Contract Data	
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa	
13.1	The <i>language of this contract</i> is	English	
13.3	The <i>period for reply</i> is	Two (2) working days after notification	
2	The Supplier's main responsibilities	Data required by this section of the core clauses is provided by the <i>Supplier</i> in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.	
3	Time		
30.1	The <i>starting date</i> is.	TBC	
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	<i>goods and services</i>	<i>delivery date</i>
		1 Instrumentation and Control Components	As stipulated on the purchase order
30.2	The <i>Supplier</i> does not bring the <i>goods</i> to the Delivery Place more than one week before the Delivery Date.	To be agreed by both parties as and when event arise	
31.1	The <i>Supplier</i> is to submit a first programme for acceptance within	One (1) week after kick-off meeting	
32.2	The <i>Supplier</i> submits revised programmes at intervals no longer than	One (1) week.	
4	Testing and defects		
42	The <i>defects date</i> is	Fifty-two (52) weeks after Delivery of each purchase order.	
43.2	The <i>defect correction period</i> is	The Supplier corrects notified Defects within 1 week of the defect being notified to the Supplier by the Supply Manager or his/her delegate or such longer period as is reasonable under the circumstances and agreed by the Parties. Purchaser shall provide access to the Supplier to collect the defected goods for correction or replacement. Supplier shall be liable for Supplier's own costs incurred as a result of such action only	
	and the <i>defect correction period</i> for	Five (5) working days	

5 **Payment**

50.1	The <i>assessment interval</i> is	between the 25th day of each successive month.
51.1	The <i>currency of this contract</i> is the	South African Rand
51.2	The period within which payments are made is	Thirty days after assessment and receipt of undisputed contractor tax invoice ATTENTION: Eskom's standard policy on payment term for all contracts valued above R50 000 0000 (Fifty Million Rand), including VAT, is 60 days. Bidders are requested to bear this payment term in mind when submitting bids and concluding contracts.
51.4	The <i>interest rate</i> is	the publicly quoted prime rate of interest (calculated on a 365-day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and
6	Compensation events	Refer to Clause 6 of the NEC3 SC
7	Title	Refer to Clause 7 of the NEC3 SC
8	Risks, liabilities, indemnities and insurance	
80.1	These are additional <i>Purchaser's</i> risks	1. Obsolete Goods 2. Preservation 3. Change in the works information
88.1	The <i>Supplier's</i> liability to the <i>Purchaser</i> for indirect or consequential loss, including loss of profit, revenue and goodwill is limited to	R0.0 (zero Rand)
88.2	For any one event, the <i>Supplier's</i> liability to the <i>Purchaser</i> for loss of or damage to the <i>Purchaser's</i> property is limited to	(1) for the <i>Purchaser's</i> existing and surrounding property in the care, custody and control of the <i>Supplier</i> the amount of the deductible (first amount payable) relevant to the event and (2) for all other existing <i>Purchaser's</i> property the applicable deductible as at contract date
88.3	The <i>Supplier's</i> liability for Defects due to his design which are not notified before the last <i>defects date</i> is limited to:	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	The value of the contract price
88.5	The <i>end of liability date</i> is	One (1) year after Delivery of the whole of the

goods and services per purchase order goods and services.

9 Termination and dispute resolution

90.1		NEC3 core clause 9 shall be applied for termination
		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.
94.1	The <i>Adjudicator</i> is	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him. (see www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
	Address	To be known once the dispute arises
	Tel No.	To be known once the dispute arises
	Fax No.	To be known once the dispute arises
	e-mail	To be known once the dispute arises
94.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA, a Division of the South African Institution of Civil Engineering, or its successor body (See www.ice-sa.org.za)
94.4(2)	The <i>tribunal</i> is:	Arbitration
94.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.
94.4(5)	The place where arbitration is to be held is	Johannesburg, South Africa
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	the Chairman for the time being or his nominee
	- if the arbitration procedure does not state who selects an arbitrator, is	of the Association of Arbitrators (Southern Africa) or its successor body.

10 Data for Option clauses

X2	Changes in the law	Refer to clause X2 of the NEC3 SC
X2.1	A change in the law of	The Republic of South Africa

X7	Delay damages		
X7.1	Delay damages for Delivery are	Delivery of	amount per day
		Line item per purchase order per day until delivery, capped at 10% of the line-item purchase order value.	2% per day
X13	Performance bond		
X13.1	The amount of the performance bond is	10% of the Contract Value	
		In the event the supplier is deemed financially unstable, the supplier shall submit a performance bond, issued by a bank, to be acceptable to the Supply Manager before the contract award	
X17	Low performance damages		
X17.1	The amounts for low performance damages are:	Percentage per line item up to a maximum of 10%	Performance level
		1% per day	for delivery of incorrect specification (Material)
		1% per day	for not meeting quality standards including documents
Z	The additional conditions of contract are		
	Z1 to Z15 always apply for Eskom		

Z1 Cession delegation and assignment

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

Z2 Joint ventures

- Z2.1 If the *Supplier* constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations then these persons or organisations are deemed to be jointly and severally liable to the *Purchaser* for the performance of this contract.
- Z2.2 Unless already notified to the *Purchaser*, the persons or organisations notify the *Supply Manager* within two weeks of the Contract Date of the key person who has the authority to bind the *Supplier* on their behalf.
- Z2.3 The *Supplier* does not alter the composition of the joint venture, consortium or other

unincorporated grouping of two or more persons without the consent of the *Purchaser* having been given to the *Supplier* in writing.

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

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

Z4 Confidentiality

- Z4.1 The *Supplier* does not disclose or make any information arising from or in connection with this contract available to Others. This undertaking does not, however, apply to information which at the time of disclosure or thereafter, without default on the part of the *Supplier*, enters the public domain or to information which was already in the possession of the *Supplier* at the time of disclosure (evidenced by written records in existence at that time). Should the *Supplier* disclose information to Others in terms of clause 23.1, the *Supplier* ensures that the provisions of this clause are complied with by the recipient.
- Z4.2 If the *Supplier* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Supply Manager*.
- Z4.3 In the event that the *Supplier* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Supplier*, to the extent permitted by law prior to disclosure, notifies the *Purchaser* so that an appropriate protection order and/or any other action can be taken if possible, prior to any disclosure. In the event that such protective order is not, or cannot, be obtained, then the *Supplier* may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed.
- Z4.4 The taking of images (whether photographs, video footage or otherwise) of the *goods* or any portion thereof, in the course of Providing the Goods and Services and after Delivery, requires the prior written consent of the *Supply Manager*. All rights in and to all such images vests exclusively in the *Purchaser*.
- Z4.5 The *Supplier* ensures that all his subcontractors abide by the undertakings in this clause.

Z5 Waiver and estoppel: Add to core clause 12.3:

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

Z6 Health, safety and the environment: Add to core clause 25.4

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

Without limitation the *Supplier*:

- warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the execution of supply and
- undertakes, in and about the execution of the supply, to comply with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the *Supplier's* direction and control, likewise observe and comply with the foregoing.

- Z6.2 The *Supplier*, in and about the execution of the supply, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the *Supplier's* direction and control, likewise observe and comply with the foregoing.

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

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

Z8 Notifying compensation events

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

Z9 Purchaser's limitation of liability

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

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

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

Z11 Addition to secondary Option X7 Delay damages (if applicable in this contract)

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

Z12 Ethics

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

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

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

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

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

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

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

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

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

- Z12.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.

- Z12.2 The *Purchaser* may terminate the *Supplier's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Supplier* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Purchaser* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the *Purchaser* can terminate the *Supplier's* obligation to Provide the Services for this reason.

- Z12.3 If the *Purchaser* terminates the *Supplier's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.

- Z12.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Purchaser* does not have a contractual bond with the Committing Party, the *Supplier* ensures that the Committing Party co-operates fully with an investigation.

Z13 Insurance

Z 13.1 Replace core clause 84 with the following:**Insurance cover 84**

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

INSURANCE TABLE A

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

Z 13.2 Replace core clause 87 with the following:

Insurance by the *Purchaser*

87

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

INSURANCE TABLE B

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

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

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

Z15 Asbestos

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

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

Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>Purchaser's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.
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

The Supply Requirements for this contract are as follows:

1. The requirements for the supply are	Supply and delivery of Instrumentation and Control Components on a once—off order to Lethabo Power Station	
2. The requirements for transport are	Roadworthy delivery vehicle that is appropriate to deliver the material as per the scope of work to Lethabo Power Station	
3. The delivery place is	Lethabo Power Station Main Stores	
4. Actions of the Parties during supply	Action	Party which does it
	Giving notice of Delivery	Supplier
	Checking packing and marking before dispatch	Supplier
	Contracting for transport	Supplier
	Pay costs of transport	Supplier
	Arrange access to delivery place	Purchaser
	Loading the <i>goods</i>	Supplier
	Unloading the <i>goods</i>	Supplier
For international procurement	Undertake export requirements	Supplier
	Undertake import requirements	Supplier
5. Information to be provided by the Supplier	Title of document	
	Packing lists for cases and their contents	
	Copy of invoice for the <i>goods</i>	
	Delivery Note	
	Test results and maintenance manuals	
For international procurement	Licences, authorisations and other formalities associated with export of the <i>goods</i>	
	Air Waybill or Bill of Lading with associated landing, delivery and forwarding order	
	The Bill of Entry endorsed by the importation authority	
	Customs work sheets, showing tax, duties and surcharges which the law of the country into which the <i>goods</i> are being imported requires the importer to pay	
	Invoice from the importation clearing agent showing airline fees, landing charges, wharfage and dock dues as applicable	
	Specify other import documents required by authorised officials.	

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

C1.2 Contract Data

Part two - Data provided by the *Supplier*

Notes to a tendering supplier:

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

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

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

³ Either April 2013 or December 2009 Edition as stated by *Purchaser* in Contract Data part 1.

⁴ Available from Engineering Contract Strategies Tel 011 803 3008, Fax 086 539 1902, or www.ecs.co.za

C1.3 Forms of Securities

Pro Formas for Bonds & Guarantees

For use with the NEC3 Supply Contract (SC3)

The *conditions of contract* stated in the Contract Data Part 1 may include the following Options:

Option X13: Performance bond

This Options require a bond or guarantee “in the form set out in the Goods Information”.

Pro forma documents for these bonds and guarantees are provided here for convenience but are to be treated as part of the Goods Information.

The organisation providing the bond / guarantee does so by copying the pro forma document onto it's letterhead without any change to the text or format and completing the required details. The completed document is then given to the *Purchaser* within the time stated in the contract.

Pro forma Performance Bond – Demand Guarantee (for use with Option X13)

(to be reproduced exactly as shown below on the letterhead of the Bank providing the Bond / Guarantee)

Eskom Holdings SOC Ltd
Megawatt Park
Maxwell Drive
Sandton
Johannesburg

Bank reference No.

Date:

Dear Sirs,

Performance Bond – Demand Guarantee for [insert name of *Supplier*] required in terms of contract [insert *Supplier's* contract reference number or title]

1. In this Guarantee the following words and expressions shall have the following meanings:-

1.1	"Bank" means	[Insert name of Bank], [●] Branch, Registration No. [●]
1.2	"Bank's Address" means	[Insert physical address of Bank]
1.3	"Contract" means	the written agreement relating to providing the <i>goods</i> and <i>services</i> , entered into between the <i>Purchaser</i> and the <i>Supplier</i> , on or about the [●] day of [●] 200[●] (Contract Reference No. [●]) as amended, varied, restated, novated or substituted from time to time;
1.4	" <i>Supplier</i> " means	[●] a company registered in accordance with the laws of [●] under Registration No [●].
1.5	" <i>Purchaser</i> " means	Eskom Holdings SOC Ltd a company registered in accordance with the laws of the Republic of South Africa under Registration Number [●]
1.6	"Expiry Date" means	the earlier of - the date that the Bank receives a notice from the <i>Purchaser</i> stating that all amounts due from the <i>Supplier</i> as certified in terms of the contract have been received by the <i>Purchaser</i> and that the <i>Supplier</i> has fulfilled all his obligations under the Contract, or - the date that the Bank issues a replacement Bond for such lesser or higher amount as may be required by the <i>Purchaser</i>.
1.7	"Guaranteed Sum" means	the sum of R[●], ([●] Rand)
1.8	" <i>goods</i> and <i>services</i> " means	[insert details from Contract Data part 1]

2. At the instance of the *Supplier*, we the undersigned _____ and _____, in our respective capacities as _____ and _____ of the Bank, and duly authorized thereto, confirm that we hold the Guaranteed Sum at the disposal of the *Purchaser* as security for the proper performance by the *Supplier* of all of its obligations in terms of and arising from the Contract and hereby undertake to pay to the *Purchaser*, on written demand from the *Purchaser* received prior to the Expiry Date, any sum or sums not exceeding in total the Guaranteed Sum.

3. A demand for payment under this guarantee shall be made in writing at the Bank's address and shall:

- be signed on behalf of the *Purchaser* by a Group Executive, Divisional Executive, Senior General Manager, General Manager or its delegate;
- state the amount claimed ("the Demand Amount");
- state that the Demand Amount is payable to the *Purchaser* in the circumstances contemplated in the Contract.

4. Notwithstanding the reference herein to the Contract the liability of the Bank in terms hereof is as principal and not as surety and the Bank's obligation/s to make payment:
- is and shall be absolute provided demand is made in terms of this bond in all circumstances; and
 - is not, and shall not be construed to be, accessory or collateral on any basis whatsoever.
5. The Bank's obligations in terms of this Guarantee:
- shall be restricted to the payment of money only and shall be limited to the maximum of the Guaranteed Sum; and
 - shall not be discharged and compliance with any demand for payment received by the Bank in terms hereof shall not be delayed, by the fact that a dispute may exist between the *Purchaser* and the *Supplier*.
6. The *Purchaser* shall be entitled to arrange its affairs with the *Supplier* in any manner which it sees fit, without advising us and without affecting our liability under this Guarantee. This includes, without limitation, any extensions, indulgences, release or compromise granted to the *Supplier* or any variation under or to the Contract.
7. Should the *Purchaser* cede its rights against the *Supplier* to a third party where such cession is permitted under the Contract, then the *Purchaser* shall be entitled to cede to such third party the rights of the *Purchaser* under this Guarantee on written notification to the Bank of such cession.
8. This Guarantee:
- shall expire on the Expiry Date until which time it is irrevocable;
 - is, save as provided for in 7 above, personal to the *Purchaser* and is neither negotiable nor transferable;
 - shall be returned to the Bank upon the earlier of payment of the full Guaranteed Sum or expiry hereof;
 - shall be regarded as a liquid document for the purpose of obtaining a court order; and
 - shall be governed by and construed in accordance with the law of the Republic of South Africa and shall be subject to the jurisdiction of the Courts of the Republic of South Africa.
 - will be invalid and unenforceable if any claim which arises or demand for payment is received after the Expiry Date.
9. The Bank chooses domicilium citandi et executandi for all purposes in connection with this Guarantee at the Bank's Address.

Signed at _____ on this _____ day of _____ 20__

For and on behalf of the Bank

Bank Signatories(s)

Name(s) (printed)

Witness(s)

Bank's seal or stamp

PART 2: PRICING DATA

NEC3 Supply Contract

Document reference	Title	No of pages
C2.1	Pricing assumptions	24
C2.2	The <i>price schedule</i>	26

C2.1 Pricing assumptions

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

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

Identified and defined terms	11	
	11.2	(11) The Prices are the amounts stated in the price column of the Price Schedule. Where a quantity is stated for an item in the Price Schedule, the Price is calculated by multiplying the quantity by the rate.
		(12) The Price Schedule is the <i>price schedule</i> unless later changed in accordance with this contract.
Assessing the amount due	50.2	The amount due is
		- the Price for each lump sum item in the Price Schedule which the <i>Supplier</i> has completed, - where a quantity is stated for an item in the Price Schedule, an amount calculated by multiplying the quantity which the <i>Supplier</i> has completed by the rate, - plus other amounts to be paid to the <i>Supplier</i>, - less amounts to be paid by or retained from the <i>Supplier</i>. Any tax which the law requires the <i>Purchaser</i> to pay to the <i>Supplier</i> is included in the amount due.

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

Function of the Price Schedule

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

Preparing the *price schedule*

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

It will be assumed that the tendering supplier has

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

- compensation event per clause 60.1;
- Understood that the *Supplier* does not have to allow in his Prices and rates for matters that may arise as a result of a compensation event.

Format of the *price schedule*

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

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

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

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

C2.2 the *price schedule*

Material Number	Description	Unit	QTY	Rate	Lead Time
0179411	DRIVE, DISK: DESIGN TYPE: HARD; DATA STORAGE CAPACITY: 66 MB; SUPPL P/N: 6AB70237AA80; FOR SICOMP	EA	2		
0215304	DRIVE, DISK: DATA STORAGE CAPACITY: 4.5 GB; COMPATIBILITY: SICOMP; SUPPL P/N: 03-6128-001; TYPE SMD EMULATOR, USED FOR FUJITSU M2333K, ONE EMULATION REMOVABLE PRIMARY SCSI, SUPPORT EMULATIONS UP TO 480 MB FOR AEM XC, IN REMOVAL CANNISTER R=<3.3 GBAEM, DISK TO DISK DRIVE MODULE COPY / BACKUP SUPPORT, WITH ADDITIONAL BACK-UP HARDRIVE AND SMD TERMINATOR	EA	2		
0553808	CAMERA: TYPE: CCTV; MODEL NO: NTI-40012-V3; LENS TYPE: VARIFOCA 3 TO 10 MM; NIGHT VISION: INFRARED DISTANCE 25 M; CONNECTION: ANALOGUE VIDEO OUT BNC CONNECTOR 1VPP CVBS, NTSC: INPUT VOLTAGE: 12 VDC OR POWER OVER ETHERNET 48 VDC NOMINAL; VIDEO RESOLUTION: 720 P AND 480 P; VIDEO COPRESSION: H.264 MAIN PROFILE; M-JPEG; MAXIMUM FRAME RATE: 30 FPS; NETWORK PROTOCOLS: IPV4; ETHERNET CONNECTOR: RJ45; CONNECTIVITY: OONVIF PROFILE S AUTO-MDIX; OPERATING TEMPERATURE: -30 TO 50 DEG C; INGRESS PROTECTION: IP66; EXTERNAL POWER SUPPLY: MODEL: MEAN WELL NES-35-12; INPUT POWER: 100-240VAC; RATING: 12V, 2.6A	EA	6		
0660239	RECORDER, VIDEO: TYPE: NETWORK; TAPE SIZE: STORAGE 2 X 4TB SURVEILLANCE HDD; SUPPL P/N: NP8160; SUPPORT FOR 32 CHANNELS WITH 16 CHANNEL BASE LICENSE; SUPPORT FOR 8 HDD BAYS; SUPPORT RAID 0; 1; 5; 10; 2 X GIGABIT PORTS OUTPUT RESOLUTION UP TO 3840 X 2160; DECODING CAPACITY: 480FPS AT 1080P OR 120FPS AT 4K; RECORDING AT 200 MBPS; OPERATING SYSTEM: EMBEDDED LINUX; COMPRESSION H 265; H264; MPEG-4; MJPEG; MXPEG DEPENDS ON IP CAMERA; SUPPORTS CAMERA MULTI STREAM SETTINGS; ALL CHANNELS VIEWABLE USING: REMOTE LIVE VIEWER OR PLAYBACK SOFTWARE; REMOTE LIVE VIEWER OR PLAYBACK WEB; IVIEWER MOBILE APP; POST RECORDING PROCESSING REMOTE; INTELLIGENT SEARCH; DIGITAL PTZ AND VIDEO ENHANCEMENT TOOL; INTELLIGENT SEARCH REMOTE: SEARCH RECORDED VIDEO FOR 5 EVENTS INCLUDING GENERAL MOTION; FOREIGN OBJECT; MISSING OBJECT; FOCUS LOSS AND CAMERA OCCLUSION; VIDEO ENHANCEMENT REMOTE: FINE TUNE THE IMAGES VISIBILITY; SHARPNESS; BRIGHTNESS CONTRAST OR EVEN GREY SCALE: EVIDENCE	EA	2		

	EXPORT: SNAPSHOT AND PRINT VIDEO IMAGE IN BMP OR JPEG; BACKUP VIDEO IN DAT; SAVE VIDEO IN ASF OR AVI; THE ACTION EXPORTING VIDEO OR VIDEO BACKUP WILL BE RECORDED IN LOG SYSTEM; ACTION NOTIFICATION: NOTIFY USERS ON CAMERA AND SYSTEM EVENT BY SOUND; DIGITAL OUTPUT; PUSH NOTIFICATION; EMAIL AND CMS ALERT; AUTO BACKUP: AUTOMATICALLY BACKUP THE RECORDED VIDEO OF PREVIOUS DATES TO A DESIGNATED FTP SERVER; MANUAL BACKUP: MANUALLY BACKUP OR DELETE THE RECORDINGS FROM ANY NVR SOLO-PLUS; WATERMARK: PROTECT ORIGINAL RECORDINGS FROM ALTERATION WITH THE SUPPLIERS WATERMARK VERIFICATION TOOL; SUPPORT 100 PLUS BRANDS OF IP CAMERAS AND 2000 PLUS MODELS WITH FREE MONTHLY DEVICE PACK UPDATES; OPERATING TEMPERATURE: -10 TO 55 DEG C; NVR SOLO PLUS				
0660667	CAMERA: TYPE: NETWORK; FILM: MULTIPLE, INDIVIDUALLY CONFIGURABLE H264 AND MOTION JPEG STREAMS; MEMORY SIZE: MICRO SD; SDHC MEMORY CARD SLOT; MEGA PIXEL QUANTITY: 2MP HDTV; RESOLUTION: 1080P; FOCAL LENGTH: VARIFOCA 3-10.5 MM P IRIS LENS; ZOOM CAPABILITIES: 3.5 X MOTORISED OPTICAL ZOOM AND AUTO FOCUS; SUPPL P/N: P1425-LE MK II; AUTOMATIC IR CUT FILTER OPTIMIZED IR WITH ADAPTABLE ANGLE OF IR ILLUMINATION UP TO 20 METERS; HDTV 1080P 2MP RESOLUTION AT 50/60 FPS; VIDEO MOTION DETECTION ACTIVE TAMPERING ALARM; CORRIDOR FORMAT; LIGHTFINDER ZIPSTREAM TECHNOLOGY; WDR FORENSIC CAPTURE; MICROSD SDHC MEMORY CARD SLOT; INTEGRATED BRACKET FOR EASY MOUNTING ON WALL AND CEILING; POWER OVER ETHERNET TYPE 1 CLASS 3; OPERATING CONDITIONS -30 TO 50 DEG C; RATE: IP66; NATIVE SUPPORT ON NUUO SURVEILLANCE CLIENT AND PLAYBACK SYSTEM CONFIGURABLE THROUGH MEDIA CONTROL WEB INTERFACE; VIEWABLE THROUGH LIVE VIEW WEB INTERFACE	EA	3		
0660686	SWITCH, NETWORK: TYPE: 10 PORT GIGABIT; PORT TYPE: UTP POE COPPER; POTENTIAL: 48 V; PORT QUANTITY: 8; CURRENT: 1.25 A; DIMENSIONS: DIA 101.6 X WD 236 X HT 27 MM; SUPPL P/N: GS110TP; 8 DEDICATED AUTO NEGOTIATE 10; 100; 1000MBPS POE COPPER PORTS AND UP TO 15.4W PER PORT WITH DYNAMIC POWER MANAGEMENT AND PRIORITY; 2 X GIGABIT SFP FIBER PORTS FOR UPLINKS; FANLESS DESIGN; CONFIGURABLE USING NETGEAR SMART CONTROL CENTER; LIFETIME WARRANTY WITH LIFETIME 24 X 7 ONLINE CHAT TECHNICAL SUPPORT; 90 DAY 24 X 7 LIVE PHONE TECHNICAL SUPPORT; PROSAFE	EA	4		
0036808	PLUG, FUSIBLE: CORE MATERIAL: STEEL; SIZE:	EA	18		

	18 MM; TEMPERATURE RATING: 140 DEG C; STRIKER PIN; HEXAGON HEAD WITH SEALING RING FOR VOITH TURBO COUPLING 422TUB; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
0136593	GLASS: TYPE: FIRE ALARM BOX; DIMENSIONS: SQ 78 X THK 1 MM; COLOR: CLEAR; REFERENCE NO: C0024178-A24-C05	EA	35		
0138603	ALARM, AUDIBLE VISUAL: VISUAL SIGNAL TYPE: ROTARY FLASH; POWER SUPPLY: 220 VAC 1 PH 40W 50/60HZ; MODEL NO: EHS220; REFERENCE NO: ER 318004; BEACON LIGHT, COLOUR ORANGE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	11		
0219243	PLUG, FUSIBLE: CASING MATERIAL: STEEL; CORE MATERIAL: LEAD AND TIN; SIZE: 3/8 IN-BSP; TEMPERATURE RATING: 160 DEG C; PLUG FOR THE FLUIDRIVE COUPLING FCU TYPE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	21		
0243102	ALARM: TYPE: FIRE CALL POINT; SUPPL P/N: V24217-B1308-W200; ENCLOSURE IP 54 WITH EN 60529 MATERIAL MACROLON COLOR OF FIRE CALL POINT RED (RAL 3000) WEIGHT 0.3 K G TEMP RATING -20 DEG CEL TO 70 DEG CEL OVERALL DIMENSIONS 135 MM HT X 135 MM WD X 38.1 MM DIA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	6		
0527984	SPRINKLER, FIRE PROTECTION: TYPE: 90 DEG; MATERIAL: BRASS; TEMPERATURE RATING: 69 DEG C; K-FACTOR: 8.0; NOZZLE ANGLE: 90 DEG C; FIRE MANAGEMENT APPROVED CLOSED HEAD MEDIUM VELOCITY NOZZLE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	11		
0527986	SPRINKLER, FIRE PROTECTION: MATERIAL: BRASS; TEMPERATURE RATING: 79 DEG C; K-FACTOR: 8.06; MANUF P/N: INBVK700AD; FIRE MANAGEMENT APPROVED; STANDARD RESPONSE VIKING SPRINKLER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	15		
0527987	SPRINKLER, FIRE PROTECTION: MATERIAL: BRASS; TEMPERATURE RATING: 68 DEG C; K-FACTOR: 8.06; MANUF P/N: INBVK100AB; FIRE MANAGEMENT APPROVED; STANDARD RESPONSE VIKING SPRINKLER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	11		

0527989	SPRINKLER, FIRE PROTECTION: MATERIAL: BRASS; TEMPERATURE RATING: 79 DEG C; K-FACTOR: 8.06; MANUF P/N: INBVK100AD; FIRE MANAGEMENT APPROVED; STANDARD RESPONSE VIKING SPRINKLER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	11		
0571671	SIREN: TYPE: STROBE LIGHT; DECIBEL: ZERO DB; POWER SOURCE: 12 VDC; LED AMBER; C/W PLUG(LIGHTER) AND MAGNETIC BASE; HT 94 X DIA 130 MM	EA	17		
0635244	SPRINKLER, FIRE PROTECTION: TYPE: STANDARD RESPONSE; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 141 DEG C; MOUNT: PENDANT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 141 DEGREE CELSIUS BLUE BULB AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	32		
0635246	SPRINKLER, FIRE PROTECTION: TYPE: RED BULB STANDARD RESPONSE; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 68 DEG C; MOUNT: PENDANT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 141 DEGREE CELSIUS RED BULB AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	11		
0635247	SPRINKLER, FIRE PROTECTION: TYPE: RED BULB STANDARD RESPONSE; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 68 DEG C; MOUNT: UPRIGHT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 68 DEGREE CELSIUS RED BULB AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	27		
0635249	SPRINKLER, FIRE PROTECTION: TYPE: BULB YELLOW; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 79 DEG C; MOUNT: UPRIGHT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 79 DEGREE CELSIUS YELLOW BULB STANDARD RESPONSE AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	11		
0018948	INDICATOR: TYPE: TRANSDUCER DISPLACEMENT; SCALE: NONE; RATING: 0 V; CURRENT: 1 A; POWER: 50 W; SUPPL P/N: WZA125-01ALV; ELECTRICAL CONNECTION: FRB CONNECTOR; MOUNT: UNIBALL SF16; PROBE DIAMETER: 50MM; RANGE: 100 MILLIMETER; DIMENSIONS: 585 MILLIMETER	EA	4		

0018949	SENSOR: TYPE: LVDT DISPLACEMENT INDICATOR; RATING: 10-55 V; ELECTRICAL CONNECTION: FR; PROBE DIAMETER: 50 MM; SUPPL P/N: WZA25.02AL; PLUG; UNIBAL SF16; FOR HP TURBINE; RANGE: 60 MILLIMETER; DIMENSIONS: LG 400 MILLIMETER	EA	2		
0037837	TACHOMETER: TYPE: ELECTRONIC; RANGE: 870-1800 RPM; RATING: 117 V AC 7 W 50/60 HZ; MODEL NO: 1820-1; REFERENCE NO: 3-Z7211; S1800; OUTPUT ADJUSTMENT 60 PULSES PER REVOLUTION	EA	2		
0050998	ORIFICE: TYPE: METERING; DRAWING NO: 2990 REV 1; PART OF PINTLE, ITEM NUMBER 33, USED ON THE HYDRAPOWER TIP ASSY; SIZE: 1MM HOLE	EA	50		
0054008	SENSOR, TEMPERATURE: STYLE DESIGNATOR: FLAME MONITOR MODULE; INCLOSURE TYPE: IP65; OUTPUT SIGNAL: RELAY; DRAWING NO: 18-A5-1/2 REV 1; REFERENCE NO: FE2020-CU; CONTROL; MAXIMUM OPERATING TEMP: 70 DEGREE CENTIGRADE; MOUNT: BOLTED	EA	31		
0054010	SENSOR, TEMPERATURE: STYLE DESIGNATOR: GAS FLAME DETECTORS; INCLOSURE TYPE: IP65; OUTPUT SIGNAL: RELAY; SUPPL P/N: LT300-ICU; DRAWING NO: CREDFELD GEN7-A5-2 REV 1; IGNITER; GAS FLAME DETECTOR/ CONTROLLER; FOR USE ON IGNITION SERVICE PANELS; TYPE: INGNITER FLAME MONITOR; MAXIMUM OPERATING TEMP: 85 DEGREE CENTIGRADE; MOUNT: BOLTED	EA	21		
0054810	GAUGE, VACUUM: DIAL SIZE: 90 MM; RANGE: 0-1000 MBAR; CASE MATERIAL: PLASTIC; TUBE MATERIAL: BRASS; CONNECTION TYPE: FBSP; CONNECTION SIZE: 3/8 IN; CONNECTION LOCATION: BACK; CONNECTION MATERIAL: BRASS; MOUNT: PANEL OR STEM; FILLED: GLYCERIN; SUPPL P/N: U82500; FIG NO: 1-11-152; REFERENCE NO: 1-11-152; U82500; 12260320; NEGATIVE SUCTION, 50M/L DIVISIONS, WITH CHEMICAL SEAL/DIAPHRAGM	EA	11		
0120722	PROBE: TYPE: TILT PENDANT; DIAMETER: 49 MM; LENGTH: 300 MM; RATING: 24 VDC 1 A; CABLE LENGTH: 3.5 M; MATERIAL: DI; REFERENCE NO: 20-32; COMPLETE WITH POWER CABLE	EA	1		
0121022	THERMOSTAT: TYPE: CONTROL; CURRENT: 2.6 A; SUPPL P/N: 883334; MODEL NO: T70; REFERENCE NO: 409.1132; RANGE: 20-150 DEGREE CENTIGRADE; POTENTIAL: 380 VOLT ALTERNATING CURRENT	EA	6		
0121178	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0-193 KPA; INDICATOR; WITH RED ALERT 360DEG VISIBILITY	EA	11		
0121688	SWITCH, PRESSURE: TYPE: GAS; RANGE: 3-30 BAR; POTENTIAL: 380 VAC; CURRENT: 16 A; ACTION: SPDT; CONNECTION: BOTTOM 11 MM NPT; DIMENSIONS: WD 80 X LG 85 X HT 82 MM; ENCLOSURE RATING: IP67; REFERENCE NO: P77BEA9350; HP TRIP FOR AIRCON UNITS, USED ON FREON GASSES, WITH MANUAL RESET BUTTON, 20MM CONDUIT	EA	11		

0123706	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0-6 BAR; POTENTIAL: 220 V; CURRENT: 10 A; ACTION: SPDT; CONNECTION: BOTTOM 11 MM NPT; DIMENSIONS: WD 85 X LG 85 X HT 52 MM; ENCLOSURE RATING: IP67; SUPPL P/N: PENN-P77AAA-9300; OPEN-LOW, 20MM CONDUIT	EA	6		
0123716	SWITCH, PRESSURE: TYPE: OIL; RANGE: 65 KPA; POTENTIAL: 220 VAC; ACTION: SPDT; CONNECTION: NUT FLARE 1/4 IN; ENCLOSURE RATING: METAL; SUPPL P/N: 60B0168; PUSH TO RESET; DELAY 120 SECONDS	EA	11		
0138190	PICK UP: TYPE: DISPLACEMENT; APPLICATION: HP CONTROL VALVE TURBINE; MODEL NO: DI510; LINEAR MEASURING RANGE: 140MM; INCLUDING A 1 METER CABLE WITH A STRAIGHT CONNECTER	EA	3		
0138601	DETECTOR: TYPE: AUTO BINDICATOR; RATING: 250 VAC 15 A; REFERENCE NO: AB-S, LAD101700; TYPE AB-S; DIMENSIONS 203 MM OD X DIAPGRAGM 175 MM; OUTSIDE DIAMETER THICKNESS 116 MM; 6 MOUNTING HOLES; STAINLESS STEEL DIAPHGRAM SNAP ACTION SWITCH	EA	26		
0143231	SEAT: TYPE: CONTACT; DIMENSIONS: ID 14 X OD 45 X THK 49.2 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 7278; REFERENCE NO: HAGT439151P1; HAGT439151; 7278; FOR 22KV GENERATOR CIRCUIT BREAKER TYPE DR36U1750D	EA	13		
0143593	METER, FLOW: TYPE: WATER; ENCLOSURE RATING: IP54; CALIBRATION COEFFICIENT: 30 DEG C; REFERENCE NO: KG D4630; AUXILLARY SUPPLY AC MAIN 220VOLTS; FREQUENSY 50HZ; LOADING WITHOUT LIMIT SWITCH APPROXIMATE 8.5VA; WITH LIMIT SWITCH APROXIMATE 12.5VA; TEMPERATURE COMPENSATION 5-90 DEG C; ADMISSIBLE BURDEN 0-800 OHMS; RESIDUAL RIPPLE SMALLER THAN 0.1PCT; OUTPUT SIGNAL 0-20MA; POTENTIAL: 190-240 VOLT ALTERNATING CURRENT	EA	2		
0148024	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-15 A; READOUT: ANALOG; STYLE: PANEL MOUNT; FACE SIZE: SQ 96 MM; 1AMP	EA	2		
0148044	METER, ELECTRICAL: TYPE: VOLT; RANGE: 0-400 V; READOUT: ANALOG; STYLE: PANEL MOUNT FLUSH; FACE SIZE: 9.5 X 9.5 X 3.8 MM; OPERATION: MOVING IRON; SUPPL P/N: T24402VGSCSC; REFERENCE NO: QF334; TEST VOLTAGE 2 KV; DIRECT READING; SILICON DAMPED; TYPE VF96	EA	11		
0148091	METER, FLOW: TYPE: STATOR COOLING SYSTEM; MATERIAL: ALUMINUM; DESIGN RATING: 1.5 BAR; MODEL NO: 6/20E; REFERENCE NO: E45054084; H2 LEAKAGE DETECTOR; CONNECTION: 26 MM FNPT; RANGE: 0.04-6 CUBIC METER PER HOUR; MEDIUM: GAS	EA	2		
0148095	DEVICE: TYPE: SIGNAL CONDITIONER; APPLICATION: DISPLACEMENT TRANSDUCER DT210; SUPPL P/N: MD152.1/24VDC; REFERENCE NO: V793; M1-02, BOX ABA104M1	EA	2		

0148182	TRANSMITTER: TYPE: SPEED PICK UP; OUTPUT: 0-20 MA; SUPPLY: 10-30 VDC; SUPPL P/N: FTG 1087 SS 19; FERROSTATGEBER ITEM NUMBER 91003; 5M; RANGE: 0.2-4.5 MILLIMETER	EA	3		
0148267	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-2.5 A; READOUT: ANALOG; STYLE: EDGEWISE FLUSH PANEL MOUNT; FACE SIZE: SQ 96 MM; REFERENCE NO: FSD0-2-5A; 50MV	EA	11		
0148474	COMPARATOR: TYPE: VOLTAGE WINDOW; SUPPL P/N: SP230-380V-AC-DP; 380 VAC, THREE PHASE, TYPE: VC-180; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	22		
0148476	MONITOR: RANGE: 0-1 A; 0-100 PCT; POWER SOURCE: 220 VAC; SUPPL P/N: CM193; RHOMBERG, RELAY CONTACTS 5PDT, 3 PHASE CURRENT	EA	14		
0149136	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-400-800 A; READOUT: ANALOG; STYLE: EDGEWISE FLUSH PANEL MOUNT; FACE SIZE: SQ 96 MM; IN 20A DIVISION, 400/1A, FED FROM 1A CT, SECONDARY WITH 100PCT CONDENSED OVERLOAD SCALE	EA	2		
0149202	METER, ELECTRICAL: TYPE: VOLT; RANGE: 0-500 VAC; READOUT: ANALOG; STYLE: PANEL MOUNT; FACE SIZE: SQ 96 MM; OPERATION: MOVING IRON; SUPPL P/N: FA96; REFERENCE NO: QF335; FOR AC, CLASS1.5	EA	11		
0149219	TRANSDUCER: TYPE: DIFFERENTIAL PRESS; INPUT: 30-300 MBAR; OUTPUT: 0-20 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 7MF1103-1AC32-1BE; FLOW PN100, 4 WIRE CONNECTION, LINEAR RISING, 1PG 13.5 CABLE GLAND, WITH BUILT IN INDICATOR, CELL FILLING SILICONE OIL, STANDARD MECHANISM CLEANING PROCEDURE, IN MBAR 75 TO 300	EA	2		
0150862	ANALYZER, GAS: TYPE: OXYGEN; SUPPL P/N: ZR01A01-01; MODEL NO: ZIRCONIA CELL; CELL ASSEMBLY	EA	12		
0150863	ANALYZER, GAS: TYPE: OXYGEN; SUPPL P/N: ZR22G-040-SKCTMEA; REFERENCE NO: 071VA012; 8071; NY4449-4-88; FLANGE CONNECTION JIS5K 65A FF, LOW TEMPERATURE DETECTOR, FOR ECONIMIZER OUTLET MATRIX THERMOCOUPLES, MS CODE Z021D2-040-JA, LENGTH FROM FLANGE TO END 400MM; POWER SOURCE: 220VAC	EA	16		
0151020	KIT: TYPE: REPAIR CONVERSION; APPLICATION: SILICA ANALYZER; REFERENCE NO: EIL8062; 8061042; ON CHEMICAL PANEL	EA	11		
0151863	GLASS, SIGHT: DIMENSIONS: LG 75 MM; MATERIAL: BRASS; SUPPL P/N: 904715-0018; 50 MM VISIBLE LENGTH; CONNECTION THREADED; 2 SECTIONS; FOR USE WITH DIAMOND POWER RETRACTABLE SOOTBLOWER TYPE IK545	EA	11		
0151907	THERMOSTAT: TYPE: GEYSER; CURRENT: 20-0.1 A; MODEL NO: VKF; REFERENCE NO: OCT-88; CAPILIARY LENGTH 150MM; RANGE: 40-70 DEGREE CENTIGRADE; POTENTIAL: 250 VAC/DC	EA	8		

0152177	GAUGE, COMPOUND: RANGE: -100 TO 900 KPA; DIAL SIZE: 150 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: MS; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; TYPE: BOURDON TUBE; REFERENCE NO: RH40 P 502; SPRING TUBE PRESSURE GAUGE, RED LINE AT 850 KPA	EA	7		
0152180	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL; FILLED: SILICON; MODEL NO: 521-100SA-42B2; REFERENCE NO: 123T4239; ADJUSTABLE MICROMETER POINTER; RANGE: 0- 6000 KILOPASCAL	EA	11		
0153437	GAUGE, PRESSURE: DIAL SIZE: 63 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; REFERENCE NO: LF25S1; RANGE: 0-4000 KILOPASCAL	EA	12		
0153539	SENSOR: TYPE: MEASURING INSERT; REFERENCE NO: C75451-A2004-B113; FOR DIFFERENTIAL PRESSURE TRANSDUCER, PN100/PN315/500; RANGE: 200-1000 MILLIBAR	EA	2		
0153559	THERMOMETER, DIAL: STEM LENGTH: 130 MM; DIAL SIZE: 5 IN; CONNECTION LOCATION: BOTTOM; CONNECTION: 3/4 IN-BSP; MATERIAL: STAINLESS STEEL; SHEATH DIAMETER: 6 MM; SUPPL P/N: 50-EI60ES040; REFERENCE NO: T125248A; STEM THICKNESS 6MM; RANGE: 0-100 DEGREE CENTIGRADE	EA	11		
0153607	THERMOMETER, DIAL: STEM LENGTH: 300 MM; DIAL SIZE: 100 MM; CONNECTION LOCATION: BOTTOM; CONNECTION: 1/2 IN-NPT; MATERIAL: STAINLESS STEEL; SUPPL P/N: TMV100; REFERENCE NO: J77 BSP; BI-METAL; RANGE: 0- 120 DEGREE CENTIGRADE	EA	11		
0153732	THERMOCOUPLE: TYPE: E; SHEATH DIAMETER: 4 MM; DESIGN LENGTH: 21 M; TEMPERATURE RANGE: 0-800 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION NONE; WIRE SIZE 1MM	EA	11		
0153738	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 29 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; JUNCTION: SINGLE; MINERAL INSULATED; INCLUDING 250MM TAILS; ITEM USED ON BOILER 2; CONNECTION NONE; WIRE SIZE 1MM	EA	9		
0153754	THERMOCOUPLE: TYPE: J; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 320 MM; TEMPERATURE RANGE: 0-800 DEG C; SHEATH MATERIAL: SS	EA	9		

	25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; REFERENCE NO: 76KU-DRW; C/W BZA HEAD AND WITH 150MM LONG X 17.5MM OD SS EXTENSION SCREWED 3/8 IM BSP; WITH THE OPEN END PLUGGED TO ALLOW CLEARANCE HOLE FOR M1 ISO POT; 75MM FLEX-TAIL TERMINAL BLOCK INCLUDED; WIRE SIZE 1MM				
0153881	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 3/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: STEM; FILLED: SILICON; REFERENCE NO: 213-40-100; ADJUSTABLE MICROMETER PIONTER; RANGE: 0- 600 KILOPASCAL	EA	27		
0153883	GAUGE, PRESSURE: DIAL SIZE: 63 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: STEM; FILLED: SILICON; CALIBRATION 1MPA SECT, LABEL INDICATING; RANGE: 250 KILOPASCAL	EA	2		
0153884	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM; WIRE: 4; SHEATH MATERIAL: TUNGSTEN CARBIDE; HEAD: YES; REFERENCE NO: T2; ELEMENT SIZE DIA 17.5 MM X LG 450 MM; ELEMENT T1; 10SWG IN A 17.5 MM OD FIREBIRD BLUE SHEATH 8 3/4 INCH BSP HEX COLLAR WELDED ON 300 MM IMMERSIONC/W BZA HEAD M20 X 105; CABLE ENTRY SHEATH BELOW COLLAR PLASMA COATED WITH DEPTH 0.015 INCH	EA	13		
0153958	GAUGE, PRESSURE: CONNECTION TYPE: BSP; CONNECTION SIZE: 1/8 IN; CONNECTION LOCATION: BACK; SUPPL P/N: 77/40; 5-100; REFERENCE NO: 439-1001; USED ON REGULATOR ON GEN 687 MVA; INPUT; RANGE: 0- 1000 KILOPASCAL	EA	9		
0154275	GAUGE, PRESSURE: DIAL SIZE: 60 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; RANGE: 0-40 MEGAPASCALS	EA	13		
0154302	THERMOSTAT: TYPE: FRIDGE; CURRENT: 6 A; REFERENCE NO: ATEA A02-1000; FOR SINGLE DOOR WITH KNOB, USED ON THE AIRCON.; RANGE: 3-26 DEGREE CENTIGRADE; POTENTIAL: 250 VOLT ALTERNATING CURRENT	EA	11		
0154626	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON;	EA	2		

	ADJUSTABLE MICROMETER POINTER; RANGE: 0-400 KILOPASCAL				
0154627	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; FILLED: SILICON; REFERENCE NO: Q100116; WITH ADJUSTABLE MICRO POINTER; LABEL INDICATING; RANGE: 0-1 MEGAPASCALS	EA	2		
0154629	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 15 MM; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; REFERENCE NO: PB8/A100SS/Y; 2 KPA DIVISIONS; RANGE: 0-100 KILOPASCAL	EA	4		
0154632	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; WITH ADJUSTABLE MICRO POINTER; RANGE: 0-600 KILOPASCAL	EA	2		
0154633	GAUGE, COMPOUND: RANGE: -100 TO 60 KPA; DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; DIAL IN 5 KPA DIVISIONS	EA	11		
0154634	GAUGE, COMPOUND: RANGE: -100 TO 500 KPA; DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; COMPLETE WITH ADJUSTABLE MICRO POINTER	EA	11		
0154635	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; LABEL INDICATING; RANGE: 0-10 MEGAPASCALS	EA	12		
0154636	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; COMPLETE WITH ADJUSTABLE MICRO POINTER, DIAL IN 5 KPA DIVISIONS; RANGE: 0-2.5 MEGAPASCALS	EA	11		

0154639	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: STEM; FILLED: SILICON; REFERENCE NO: PB8-A100SS-Y; SS INTERNALS; ADJUSTABLE MICROMETER POINTER; PLUS CHEMICAL SEAL; UPPER FLANGE 1/2 IN SS; BOTTOM FLANGE 1/2 IN NPT SS; LABEL INDICATING SILICONE; RANGE: 0-1 MEGAPASCALS	EA	6		
0154643	GAUGE, DIFFERENTIAL PRESSURE: RANGE: 0-250 KPA; DIAL SIZE: 150 MM; CONNECTION SIZE: 3/4 IN; CASE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL; CONNECTION TYPE: BSP; SUPPL P/N: DDB/B150SS; SS TUBE MATERIAL, NON FILLED, MORBOF STAT 637, WITH 2 ELECTRICAL CONTACTS, WITH ADJUSTABLE ALARM SETTING, MAX STATIC PRESSURE 2500 KPA	EA	11		
0154646	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 3/8 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; SUPPL P/N: 100MIX/A1/2; RANGE: 0-1000 KILOPASCAL	EA	6		
0154655	THERMOMETER, DIAL: STEM LENGTH: 200 MM; DIAL SIZE: 100 MM; CONNECTION LOCATION: BOTTOM; CONNECTION: 20 MM BSP; MATERIAL: STAINLESS STEEL; MODEL NO: K290; RANGE: 0-60 DEGREE CENTIGRADE	EA	11		
0154886	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 3/8 IN; CASE MATERIAL: MS; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: NONE; NON FILLED WITH BRS INTERNALS; RANGE: 0-1600 KILOPASCAL	EA	8		
0178759	COMPUTER: TYPE: KEYPAD DATA SET; PRECIPS PC1000 + 1001	EA	3		
0179444	CONTROL: TYPE: LEVEL ALARM DISPLAY; COAXIAL CABLE, CONDUCTOR RG58, POSITION 1	EA	2		
0186202	WINDOW, SIGHT: MATERIAL: GLASS; DIMENSIONS: OD 31.85 MM; TYPE: OIL LEVEL; SUPPL P/N: 395539-1119; DAIMOND POWER	EA	10		
0211803	DETECTOR, RESISTANCE TEMPERATURE: TEMPERATURE RATING: 0-100 DEG C; RESISTANCE: 100 OHM; WIRE: 3; SHEATH MATERIAL: SS GR 316; SUPPL P/N: CLASS- A PT100; ELEMENT SIZE 6MM DIA X 280MM LG, SUPPLIED WITH 5M PVC CABLE 105 DEG CELCIUS, MAGNESIUM POWDER FILLED MGO, WITH POT SEAL/SUPPORT SPRING	EA	11		
0217729	KIT: TYPE: REPAIR; APPLICATION: AMPLIFIER PILOT; COMPRISING: DIAPHRAGM; O-RING; SEAL;	EA	11		

	SUPPL P/N: 283SK				
0223826	POSITIONER, VALVE: TYPE: ELECTROPNEUMATIC; SUPPLY PRESSURE: MAX 6.2 BAR; INPUT: 4-20 MA DC; MANUF P/N: FS3661-22; FS 3661-22; INSTRUMENT TYPE: 3661; ACTION: DIRECT; BYPASS: NO; INSTRUMENT GAUGE: YES; OUTPUT GAUGES: 0-160 PSI/MPA; HAZARDOUS AREA APPROVAL: FMIS; PRESSURE CONNECTION: 1/4 NPT; CONDUIT CONNECTION: 1/2 NPT; FLOW SCANNER TEST FITTINGS: NONE; TRAVEL RANGE: 3/4 TO 2 INCH; AMBIENT TEMP LIMITS: -04 TO 140F; PROTECTIVE PLASTIC PLUGS: WITHOUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	2		
0224340	DISPLAY UNIT: TYPE: LEVEL SENSOR; POWER SOURCE: 24 V; SUPPL P/N: 381; REFERENCE NO: MET 381 XX; FOR BUNKER LEVELS, SINGLE SIGNAL CONDITIONING INSTRUMENT AND INDICATION FOR CONTINUOUS MEASUREMENT WITH INTERGRATED LEVEL SWITCHES; 0-70 M; VEGAPLUS; VEGAMET	EA	4		
0234324	SENSOR, FLOW: MEDIUM: LIQUID; DIMENSIONS: DIA 54 X WD 321 X HT 320 MM; FLOW RATE: 108 KG/HR; PRESSURE RATING: 100 BAR; MATERIAL: SS GR 314; ACCURACY OF 10PCT ON; DENSITY RANGE OF 0-5; DENSITY ACCURACY 0.0005 G/U; TEMPERATURE ACCURACY 1 DEG C; TEMPERATURE RATING -240 DEG C TO 204 DEG C; WETTED PARTS MUST BE CONSTRUCTED WITH SS 316; HOUSING TO BE CONSTRUCTED WITH SS 304; RANGE 0-82 KG/H; TYPE ELITE; WITH STEAM JACKET FLANGED VERSION WITH EXTENSION FOR WIRE CONNECTION; ITEM MUST COME COMPLETE WITH MICROMOTION CORIOLIS TRANSMITTER MODEL NUMBER: 5700C13AFZAZZZAZZZZ AND WITH 10FT SHIELDED CABLE PART NO: CFEPS1A010 AND J/BOX ASSEMBLY PART NO: SRPJBOXKITAL AND WITH CORRIOLIS METER MODEL NO: CMFS010M150N4FZEKZZ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	2		
0240574	CONTROLLER: TYPE: THYRISTOR DRIVE; RANGE: 0-380 VAC; RATING: 400 V 160 A 105 KW 3 PH; OUTPUT: 150 A; INPUT: 4 TO 20 MA; SUPPL P/N: K6550/AL/400/160A; FUSED CONNECTION IN LINE, MOUNTING BASE 400 X 330 X 250 MM TOP-BOTTOM, ENCLOSURE IP54 5 PCT ACCURACY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	2		
0244209	CONVERTER, SIGNAL: INPUT: 4-20 MA; OUTPUT: 0-20 MA; APPLICATION: TRANSMITTER P PRESSURE, SITRANS; SPECIFICATION: 7MF4997-2GC; 4-WIRE CONNECTION (V60 / V61); UC 24 V, 2XPG DOWNWARDS FOR 7MF4-2 AND 74MF4-3	EA	3		

	BUT NOT FOR EX/HART; MOUNTING THREAD M20 X 1.5				
0246001	ANALYZER: TYPE: AL OXIDE MOISTURE SENSOR; RANGE: -80 TO 20 DEG C; MANUF P/N: M2LR; DEW POINT PROBE ACCURACY +/-3.6 DEG F(+/-2 DEG C) IN RANGE OF 140 TO -85 DEG F(60 TO -65 DEG C) REPEATABILITY +/-0.9 DEG F (+/-0.5 DEG C) IN RANGE OF 140 TO -85 DEG F (60 TO -65 DEG C) OPERATED PRESSURE 6 BAR RESPONSE TIME <63% IN MOISTURE CONTENT IMPEDANCE RANGE 50 K OHMS TO 2 M OHMS DEPENDING ON WATER VAPOUR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	3		
0246195	TRANSMITTER, FLOW: SUPPLY: 125/250 V 15/7 A; WORKING PRESSURE: 125 PSI; BODY MATERIAL: BRZ 85-5-5-5 ACID DIP; MODEL NO: 816BC; APPLICATION MILL GEARBOX, DIAL ALUMINIUM BACKGROUND WITH BLACK GRADUATIONS, POINTER BRASS PAINTED RED, WINDOW CLEAR ACRYLIC PLASTIC, HEAD GASKET GARLOCK 7022, SEAL VITON A, O RING SEAL, WEATHERPROOF HEAD, TELEFLO SWITCH SPDT; CONNECTION: 2 IN-NPT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	2		
0251523	GLASS, SIGHT: DIMENSIONS: WD 30 X LG 265 X THK 25 MM; MATERIAL: PERSPEX; COLOR: CLEAR; SHAPE: RECT; BETWEEN BOLTS 225 MM CENTRE, COMPLETE WITH BOLTS AND GASKET	EA	11		
0251524	GLASS, SIGHT: DIMENSIONS: WD 30 X LG 185 X THK 25 MM; MATERIAL: PERSPEX; COLOR: CLEAR; SHAPE: RECT; 145 MM BETWEEN BOLTS CENTRES, COMPLETE WITH BOLTS AND GASKET	EA	11		
0253059	SENSOR: TYPE: MAGNETIC FLOAT SWITCH; RATING: 230 VDC 0.5 A 50 W; MODEL NO: 60-ARV2-VS0-L330/12-2/V52A-EX; MATERIAL SS 316 TI (1.4571); IP65; OPERATING TEMPERATURE -30 TO 150 DEG C; TERMINAL BOX ALUMINIUM GUIDE TUBE LENGTH 330 MM; RANGE: -30 TO 150 DEGREE CENTIGRADE; DIMENSIONS: OD 12 MILLIMETER	EA	2		
0500085	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-100 A; READOUT: ANALOG; FACE SIZE: SQ 96 MM; OPERATION: COIL	EA	11		
0557264	TRANSPONDER: POWER: 21-28 V; MANUF P/N: SPF 3500; REFERENCE NO: S24218-F14-A1; INPUTS: MONITORED ALARM LINES 4 OPERATING ON THE BASIS OF THE FIXED TRESHOLD DETECTION SYSTEM: VOLTAGE OF MONITOR: 20V ED ALARM LINE (MPL); LINE RESISTANCE: 140 OHMS; TERMINATING RESISTOR OF THE MPL: 3.3 KOHMS; CONNECTABLE DETECTORS PER MPL: 32; OUTPUTS: MONITORED OR NON MONITORED CONTROL OUTPUTS: 4; CONTROL VOLTAGE: 20V; CONTROL CURRENT PER OUTPUT: 50 MA-126 MA; SUM ON THE OUTPUT CURRENTS: 210 MA;	EA	11		

	CONNECTION TERMINALS: SCREWLESS; WIRE CROSS SECTION PRE-TERMINAL: 1.5 MM SQUARE; ENCLOSURE IN ACCORDANCE WITH EN 60529: IP 54; HOUSING: POLY-CARBONATE; COLOR: LIGHT GREY (SIMILAR RAL 7035); WEIGHT: 0.370 KG; PERMITTED AMBIENT TEMPERATURE: -25 TO +70 DEG C; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
0587692	ANALYZER, GAS: TYPE: H2; O2; MANUF P/N: 1035324; ADOS GTR 196 EX; THIS PART NUMBER ALSO INCLUDE THE SOLENOIDE VALVES; INLINE FILTER; FLOW SWITCH; METERING VALVE AND REGULATOR NECESSARY TO INSTALL THIS ANALYSER	EA	2		
0600177	ANALYZER: TYPE: CO2; RANGE: 0-100 H2; POWER SOURCE: 220 V 50 HZ; OEM P/N: 45054965; 0-100 PCT OF AIR WITH FLAME TRAPS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	2		
0600347	TRANSMITTER, LEVEL: RANGE: 0-15 M; OUTPUT: 4-20 MA; SUPPLY: 12-35 VDC; WORKING PRESSURE: 3 BAR; TYPE: RADAR; BODY MATERIAL: PLASTIC; ELECTRICAL CONNECTION: 2 WIRE; ENCLOSURE: IP67; SUPPL P/N: VEGAPULS 31; 80 GHZ; COUNTER NUT TO BE INCLUDED; INTERGRATED ON SITE DISPLAY AND 3 KEY OPERATION; CONNECTION: G1 1/2 IN THREADED BOSS	EA	3		
0600735	TRANSMITTER, LEVEL: RANGE: 0-20 M; OUTPUT: 4-20 MA; SUPPLY: 11-32 VDC; WORKING PRESSURE: 0-2.5 BAR; TYPE: ULTRASONIC; ELECTRICAL CONNECTION: 2 WIRE; APPLICATION: FILTERED WATER; ENCLOSURE: IP68; NON CONTACT ULTRASONIC TIME OF FLIGHT: DISTANCE: 20M; CONSUMPTION: IW: COMMUNICATION: PROFIBUS PA: ACCURACY +/- 0.2 PERCENTAGE; PROCESS T: -40 TO 80 DEG C; CONNECTION: FLANGE	EA	2		
0615524	INDICATOR: TYPE: TRANSDUCER DISPLACEMENT; SCALE: 0 TO 1.62 MM; RATING: 0 TO 5 VDC; SUPPL P/N: LP-100F-15 RES 1K; RANGE: 0-100 PERCENT; DIMENSIONS: WD 22 X LG 240 MILLIMETER	EA	8		
0620775	ANALYZER, GAS: TYPE: HYDROGEN; DISPLAY: FULL COLOUR TOUCH SCREEN; MODEL NO: NOVA 430QNA4; METHOD OF DETECTION THERMAL CONDUCTIVITY HYDROGEN DETECTOR; HEATED AND TEMPERATURE CONTROLLED FOR MAXIMUM STABILITY; MEASURING RANGE: 0 TO 10 PERCENT HYDROGEN IN AIR; RESOLUTION: 0.1 PERCENT HYDROGEN; ACCURACY AND REPEATABILITY +/- TO 1.0 PERCENT OF FS; DRIFT: LESS THAN 1 PERCENT OF FS PER MONTH; RESPONSE TIME: 10 TO 15 SECS TO 90 PERCENT STEP CHANGE; AMBIENT TEMPERATURE RANGE: 0 TO 50 DEG C; LINEARITY +/- 1 PERCENT OF FS DISPLAY;	EA	2		

	OUTPUT: ISOLATED 4 TO 20 MA OUT FOR DATA TRANSMISSION GREATER THAN 30 M; SUPPLY POWER: 220VAC AT 50HZ; CABINET: NEMA 4 WALL MOUNT WATER PROOF GENERAL PURPOSE NONE HAZARDOUS AREA RATING; ALARM: LOW FLOW RELAY SET C/W INDICATOR LIGHT; SAMPLING: BUILT IN SAMPLE PUMP FILTER AND FLOW METER; ERSA TO INCLUDE: WARNING ALARM HIGH H2 RELAY SET C/W INDICATOR LIGHT POTENTIAL FREE CONTACT N/O				
0624589	DISPLAY UNIT: TYPE: PRE PROGRAMMED; POWER SOURCE: 24 VDC; READOUT: 160 X 64; DIMENSIONS: WD 1.7 X LG 10.4 X HT 6.4 MM; SUPPL P/N: ILSS-002; 06 DOT STANDARD FONT; ITEM IS USED ON THE MILLING PLANT INTELI LUB SYSTEM	EA	3		
0628211	SWITCH, PRESSURE: TYPE: AIR; RANGE: 0.12 BAR; ACTION: SPDT; ENCLOSURE RATING: NEMA 4; SUPPL P/N: D1T-H2-SS; ADJUSTABLE RANGE 0.001-0.2 BAR; CONNECTION: BOTTOM 1/4 IN-NPT; POTENTIAL: 250 VOLT ALTERNATING CURRENT; CURRENT: 10 AMPERE; CONTACT ARRANGEMENT: 1NO 1NC	EA	183		
0638611	CONVERTER: TYPE: ANALYZER CONTROL UNIT; INPUT: 230 V 1100 W; OUTPUT: 5-24 VDC; APPLICATION: PROCAL P2000; REFERENCE NO: 1-0200; PANEL PC INTEGRATED WITH AN OUTPUT/INPUT UNIT USED TO CONTROL & LOG ALL INFORMATION RECEIVED FROM THE OPTICAL HEAD UNIT; SINGLE PHASE	EA	4		
0638666	CONVERTER: TYPE: PROCAL I/P AND O/P UNIT; INPUT: 230 VAC; OUTPUT: 4-20 MA; APPLICATION: ACU; RATING: 230 VAC 1100 W; REFERENCE NO: 1-0101; SERIAL CABLE TO PROVIDE ADDITIONAL INPUTS CURRENT OUTPUT AND RELAY OUTPUT TO ANY SYSTEM; EACH UNIT CAN PROVIDE UP TO 3 L INPUT OR OUTPUT MODULES (MIXED ALLOCATION) HAS UP TO 32 RELAYS AND PROVIDE 16 DIGITAL INPUT	EA	5		
0639569	DEVICE: TYPE: CONDUCTIVITY METER PROBE 5M WITH CABLE; APPLICATION: DEMIN PRODUCTION PLANT; SUPPL P/N: CLS21D-C1E1; CYK10-A051; MEASURING RANGE: 0.04-20 K EQUALS TO 1 MOCROSIEMENS PER CENTIMETER; PROCESS CONNECTION: THREAD G1, PES; 10UB11/12/13/31/33A001	EA	13		
0644872	ANALYZER: TYPE: AMI SILITRACE; RANGE: 0.5-1000 PPB; POWER SOURCE: 100-240 VAC; SPECIFICATION: A-25.431.100; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	2		
0661589	MONITOR: TYPE: HMI TOUCH SCREEN; RANGE: 0-3000 KPA; POWER SOURCE: 220 V; SUPPL P/N: MP277	EA	2		
0681652	GAS: TYPE: S CANDISK 103/110; PURITY: O2 20.9 PCT; CONTAINER: 1.55 L; 19.75 PERCENT GAV VALUE; TOLERANCE: PLUS OR MINUS 5 PERCENT; BALANCE N2; DO NOT REFILL CAN;	EA	2		

	COMPLETE WITH TEST CERTIFICATE CERTIFICATE				
0686790	TRANSMITTER: TYPE: FERROSTAT SPEED SENSOR; OUTPUT: 0-10 KHZ; SUPPLY: 10-30 VDC; SUPPL P/N: DSF1610.00 SHV; ITEM NUMBER: 374Z-03933; 5M TEFLON CABLE; RANGE: 0.05 TO 20 KILO HERTZ	EA	2		
0698976	RECORDER: TYPE: PAPERLESS GRAPHIC; POTENTIAL: -20V TO 20 VDC; REFERENCE NO: 6100A/U12/XXX; RELAY: 250VAC 2A; 12 INPUT CHANNELS; PANEL MOUNT; LOCK: NO MEDIA; CASE COLOUR: SILVER; VH POWER SUPPLY: 85- 264VAC 45-65HZ; 24V POWER SUPPLY NOT FITTED; NON STANDARD OPTION; INTERNAL MEMORY: 096M; REMOVABLE MEDIA CF COMPACT FLASH AND FRONT USB PORT; 08G MEMORY CARD NOT FITTED; NOMS USB MEMORY STICK NOT FITTED; 0RUSB NO REAR USB PORTS; 0SRL NO SERIAL COMMS FITTED; 06 CHANGEOVER RELAYS FITTED; 24 QTY OF SHUNTS; SHUNTS: 100 OHM; WL005 EXTENDED WARRANTY; BRIDGE FULL SOFTWARE; REVIEW AND QUICK CHART (RLITE) REVIEW LITE AND QUICKCHART LITE; 6 GROUPS STANDARD; MTC36 MATHS; TOTALIZERS AND COUNTERS: 36 VIRTUAL CHANNELS; CODE: 6100A/U12/PANEL/NOLCK/ SLV/VH/NONE/ XXXXXX/ 096M/CF/ 008G/NOMS/0RUSB /0SRL/ NONECAL/06/00/00/00/00/12/100/WL005 /BFULL/RLITE/NOADT/NOSM/06GROUP /MTC36/NOBTCH /NOSB/NOMSTR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	4		
0749176	CONTROLLER, ELECTRONIC: TYPE: SPEED CONTROLLER; POTENTIAL: 220 VAC; OUTPUT: 90 VDC; INPUT: 4-20 MA; MOUNTING: SCREW MOUNT; CURRENT: 5 A; OEM P/N: 5001TCP; THIS CONTROLLER MODULE IS USED TO DRIVE A MAGNETIC CLUTCH WHICH INCREASE OR DECREASE THE COAL FEEDER SPEED.	EA	8		
0773417	THERMISTOR: RANGE: -; REFERENCE NO: 1-0004; PROCAL TEMPERATURE PROBE ANALYZER HEAD	EA	6		
0773418	TRANSDUCER: TYPE: -; INPUT: -; POWER SOURCE: -; REFERENCE NO: 1-0005; PROCAL 2000 PRESSURE TRANSDUCER ASSEMBLY	EA	6		
0773419	TRANSMITTER: TYPE: -; OUTPUT: -; SUPPLY: -; REFERENCE NO: 1-0007E; IR SOURCE	EA	6		
0773897	CONTROLLER, ELECTRONIC: TYPE: VOLTAGE; POTENTIAL: 400 V; OUTPUT: 75 KV; INPUT: 400 V	EA	15		
0777382	THERMOSTAT: TYPE: GEYSER THERMOSTAT; CURRENT: 22.7 A; POWER SUPPLY: 220 VAC; CONTROL METHOD: AUTO CUT OFF; TEMPERATURE RATING: 30-83 DEG C; 200L AND 150 L	EA	2		
0782056	ANALYZER: TYPE: PH PROBE AND CONTROLLER; RANGE: 5-9 PH; POWER SOURCE: 240 V; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE	EA	2		

	CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
0785044	METER, FLOW: TYPE: ELECTROMAGNETIC; MATERIAL: CARBON STEEL; APPLICATION: FLOW MEASUREMENT; POWER SUPPLY: 100 - 240 VAC; DESIGN RATING: 40 BAR; PROCESS CONNECTION: PN16, CARBON STEEL, FLANGE EN1092-1; ELECTRICAL CONNECTION: GLAND M20; DISPLAY: PROMAG 400; BODY MATERIAL: ALUMINUM COATED; ENCLOSURE RATING: IP68 TYPE 6P; CURRENT: 4-20 MA; NOMINAL BORE: 1-10 IN; OUTPUT: 4-20 MA; POWER: 50 W; POTENTIAL: 240 V AC/DC; RANGE: 0-500 M3/HR	EA	2		
0787031	ASSEMBLY: TYPE: SENSOR; APPLICATION: TEMPERATURE SENSOR; SUPPL P/N: 1-0059; THIS IS THE TEMPERATURE ASSEMBLY BOARD WHERE THE PROTEA P2000 GAS ANALYSER SAMPLE TEMPERATURE CONNECTS TO.	EA	6		

PART 3: SCOPE OF WORK

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C3.1: *PURCHASER'S* GOODS INFORMATION

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1. Overview and purpose of the goods and services

The supply and delivery of Instrumentation and Control Components (Once off) to Lethabo Power Station.

2. Specification and description of the goods

Material Number	Description	Unit
0179411	DRIVE, DISK: DESIGN TYPE: HARD; DATA STORAGE CAPACITY: 66 MB; SUPPL P/N: 6AB70237AA80; FOR SICOMP	EA
0215304	DRIVE, DISK: DATA STORAGE CAPACITY: 4.5 GB; COMPATIBILITY: SICOMP; SUPPL P/N: 03-6128-001; TYPE SMD EMULATOR, USED FOR FUJITSU M2333K, ONE EMULATION REMOVABLE PRIMARY SCSI, SUPPORT EMULATIONS UP TO 480 MB FOR AEM XC, IN REMOVAL CANNISTER R=<3.3 GBAEM, DISK TO DISK DRIVE MODULE COPY / BACKUP SUPPORT, WITH ADDITIONAL BACK-UP HARDRIVE AND SMD TERMINATOR	EA
0553808	CAMERA: TYPE: CCTV; MODEL NO: NTI-40012-V3; LENS TYPE: VARIFOCA 3 TO 10 MM; NIGHT VISION: INFRARED DISTANCE 25 M; CONNECTION: ANALOGUE VIDEO OUT BNC CONNECTOR 1VPP CVBS, NTSC: INPUT VOLTAGE: 12 VDC OR POWER OVER ETHERNET 48 VDC NOMINAL; VIDEO RESOLUTION: 720 P AND 480 P; VIDEO COPRESSION: H.264 MAIN PROFILE; M-JPEG; MAXIMUM FRAME RATE: 30 FPS; NETWORK PROTOCOLS: IPV4; ETHERNET CONNECTOR: RJ45; CONNECTIVITY: OONVIF PROFILE S AUTO-MDIX; OPERATING TEMPERATURE: -30 TO 50 DEG C; INGRESS PROTECTION: IP66; EXTERNAL POWER SUPPLY: MODEL: MEAN WELL NES-35-12; INPUT POWER: 100-240VAC; RATING: 12V, 2.6A	EA
0660239	RECORDER, VIDEO: TYPE: NETWORK; TAPE SIZE: STORAGE 2 X 4TB SURVEILLANCE HDD; SUPPL P/N: NP8160; SUPPORT FOR 32 CHANNELS WITH 16 CHANNEL BASE LICENSE; SUPPORT FOR 8 HDD BAYS; SUPPORT RAID 0; 1; 5; 10; 2 X GIGABIT PORTS OUTPUT RESOLUTION UP TO 3840 X 2160; DECODING CAPACITY: 480FPS AT 1080P OR 120FPS AT 4K; RECORDING AT 200 MBPS; OPERATING SYSTEM: EMBEDDED LINUX; COMPRESSION H 265; H264; MPEG-4; MJPEG; MXPEG DEPENDS ON IP CAMERA; SUPPORTS CAMERA MULTI STREAM SETTINGS; ALL CHANNELS VIEWABLE USING: REMOTE LIVE VIEWER OR PLAYBACK SOFTWARE; REMOTE LIVE VIEWER OR PLAYBACK WEB; IVIEWER MOBILE APP; POST RECORDING PROCESSING REMOTE; INTELLIGENT SEARCH; DIGITAL PTZ AND VIDEO ENHANCEMENT TOOL; INTELLIGENT SEARCH REMOTE: SEARCH RECORDED VIDEO FOR 5 EVENTS INCLUDING GENERAL MOTION; FOREIGN OBJECT; MISSING OBJECT; FOCUS LOSS AND CAMERA OCCLUSION; VIDEO ENHANCEMENT REMOTE: FINE TUNE THE IMAGES VISIBILITY; SHARPNESS; BRIGHTNESS CONTRAST OR EVEN GREY SCALE: EVIDENCE EXPORT: SNAPSHOT AND PRINT VIDEO IMAGE IN BMP OR JPEG; BACKUP VIDEO IN DAT; SAVE VIDEO IN ASF OR AVI; THE ACTION EXPORTING VIDEO OR VIDEO BACKUP WILL BE RECORDED IN LOG SYSTEM; ACTION NOTIFICATION: NOTIFY USERS ON CAMERA AND SYSTEM EVENT BY SOUND; DIGITAL OUTPUT; PUSH NOTIFICATION; EMAIL AND CMS ALERT; AUTO BACKUP: AUTOMATICALLY BACKUP THE RECORDED VIDEO OF PREVIOUS DATES TO A DESIGNATED FTP SERVER; MANUAL BACKUP: MANUALLY BACKUP OR DELETE THE RECORDINGS FROM ANY NVRSOLO-PLUS; WATERMARK: PROTECT ORIGINAL RECORDINGS FROM ALTERNATION WITH THE SUPPLIERS WATERMARK VERIFICATION TOOL; SUPPORT 100 PLUS BRANDS OF IP CAMERAS AND 2000 PLUS MODELS WITH FREE MONTHLY DEVICE PACK UPDATES; OPERATING TEMPERATURE: -10 TO 55 DEG C; NVRSOLO PLUS	EA
0660667	CAMERA: TYPE: NETWORK; FILM: MULTIPLE, INDIVIDUALLY CONFIGURABLE H264 AND MOTION JPEG STREAMS; MEMORY SIZE: MICRO SD; SDHC MEMORY CARD SLOT; MEGA PIXEL QUANTITY: 2MP HDTV; RESOLUTION: 1080P; FOCAL LENGTH: VARIFOCA 3-10.5 MM P IRIS LENS; ZOOM CAPABILITIES: 3.5 X MOTORISED OPTICAL ZOOM AND AUTO FOCUS; SUPPL P/N: P1425-LE MK II; AUTOMATIC IR CUT FILTER OPTIMIZEDIR WITH ADAPTABLE ANGLE OF IR ILLUMINATION UP TO 20 METERS; HDTV 1080P 2MP RESOLUTION AT 50/60 FPS; VIDEO MOTION	EA

	DETECTION ACTIVE TAMPERING ALARM; CORRIDOR FORMAT; LIGHTFINDER ZIPSTREAM TECHNOLOGY; WDR FORENSIC CAPTURE; MICROSD SDHC MEMORY CARD SLOT; INTEGRATED BRACKET FOR EASY MOUNTING ON WALL AND CEILING; POWER OVER ETHERNET TYPE 1 CLASS 3; OPERATING CONDITIONS -30 TO 50 DEG C; RATE: IP66; NATIVE SUPPORT ON NUUO SURVEILLANCE CLIENT AND PLAYBACK SYSTEM CONFIGURABLE THROUGH MEDIA CONTROL WEB INTERFACE; VIEWABLE THROUGH LIVE VIEW WEB INTERFACE	
0660686	SWITCH, NETWORK: TYPE: 10 PORT GIGABIT; PORT TYPE: UTP POE COPPER; POTENTIAL: 48 V; PORT QUANTITY: 8; CURRENT: 1.25 A; DIMENSIONS: DIA 101.6 X WD 236 X HT 27 MM; SUPPL P/N: GS110TP; 8 DEDICATED AUTO NEGOTIATE 10; 100; 1000MBPS POE COPPER PORTS AND UP TO 15.4W PER PORT WITH DYNAMIC POWER MANAGEMENT AND PRIORITY; 2 X GIGABIT SFP FIBER PORTS FOR UPLINKS; FANLESS DESIGN; CONFIGURABLE USING NETGEAR SMART CONTROL CENTER; LIFETIME WARRANTY WITH LIFETIME 24 X 7 ONLINE CHAT TECHNICAL SUPPORT; 90 DAY 24 X 7 LIVE PHONE TECHNICAL SUPPORT; PROSAFE	EA
0036808	PLUG, FUSIBLE: CORE MATERIAL: STEEL; SIZE: 18 MM; TEMPERATURE RATING: 140 DEG C; STRIKER PIN; HEXAGON HEAD WITH SEALING RING FOR VOITH TURBO COUPLING 422TUB; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0136593	GLASS: TYPE: FIRE ALARM BOX; DIMENSIONS: SQ 78 X THK 1 MM; COLOR: CLEAR; REFERENCE NO: C0024178-A24-C05	EA
0138603	ALARM, AUDIBLE VISUAL: VISUAL SIGNAL TYPE: ROTARY FLASH; POWER SUPPLY: 220 VAC 1 PH 40W 50/60HZ; MODEL NO: EHS220; REFERENCE NO: ER 318004; BEACON LIGHT, COLOUR ORANGE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0219243	PLUG, FUSIBLE: CASING MATERIAL: STEEL; CORE MATERIAL: LEAD AND TIN; SIZE: 3/8 IN-BSP; TEMPERATURE RATING: 160 DEG C; PLUG FOR THE FLUIDRIVE COUPLING FCU TYPE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0243102	ALARM: TYPE: FIRE CALL POINT; SUPPL P/N: V24217-B1308-W200; ENCLOSURE IP 54 WITH EN 60529 MATERIAL MACROLON COLOR OF FIRE CALL POINT RED (RAL 3000) WEIGHT 0.3 K G TEMP RATING -20 DEG CEL TO 70 DEG CEL OVERALL DIMENSIONS 135 MM HT X 135 MM WD X 38.1 MM DIA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0527984	SPRINKLER, FIRE PROTECTION: TYPE: 90 DEG; MATERIAL: BRASS; TEMPERATURE RATING: 69 DEG C; K-FACTOR: 8.0; NOZZLE ANGLE: 90 DEG C; FIRE MANAGEMENT APPROVED CLOSED HEAD MEDIUM VELOCITY NOZZLE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0527986	SPRINKLER, FIRE PROTECTION: MATERIAL: BRASS; TEMPERATURE RATING: 79 DEG C; K-FACTOR: 8.06; MANUF P/N: INBVK700AD; FIRE MANAGEMENT APPROVED; STANDARD RESPONSE VIKING SPRINGLER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0527987	SPRINKLER, FIRE PROTECTION: MATERIAL: BRASS; TEMPERATURE RATING: 68 DEG C; K-FACTOR: 8.06; MANUF P/N: INBVK100AB; FIRE MANAGEMENT APPROVED; STANDARD RESPONSE VIKING SPRINGLER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0527989	SPRINKLER, FIRE PROTECTION: MATERIAL: BRASS; TEMPERATURE RATING: 79 DEG C; K-FACTOR: 8.06; MANUF P/N: INBVK100AD; FIRE MANAGEMENT APPROVED; STANDARD RESPONSE VIKING SPRINGLER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0571671	SIREN: TYPE: STROBE LIGHT; DECIBEL: ZERO DB; POWER SOURCE: 12 VDC; LED AMBER; C/W PLUG(LIGHTER) AND MAGNETIC BASE; HT 94 X DIA 130 MM	EA

0635244	SPRINKLER, FIRE PROTECTION: TYPE: STANDARD RESPONSE; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 141 DEG C; MOUNT: PENDANT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 141 DEGREE CELSIUS BLUE BULB AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0635246	SPRINKLER, FIRE PROTECTION: TYPE: RED BULB STANDARD RESPONSE; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 68 DEG C; MOUNT: PENDANT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 141 DEGREE CELSIUS RED BULB AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0635247	SPRINKLER, FIRE PROTECTION: TYPE: RED BULB STANDARD RESPONSE; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 68 DEG C; MOUNT: UPRIGHT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 68 DEGREE CELSIUS RED BULB AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0635249	SPRINKLER, FIRE PROTECTION: TYPE: BULB YELLOW; CONNECTION: 1/2 IN; MATERIAL: BRASS; TEMPERATURE RATING: 79 DEG C; MOUNT: UPRIGHT; K-FACTOR: 80; FIRE SYSTEM SPRINKLER THAT IS ACTIVATED AT 79 DEGREE CELSIUS YELLOW BULB STANDARD RESPONSE AND WITH A BODY MADE FROM BRASS; 1/2 INCH (15MM); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0018948	INDICATOR: TYPE: TRANSDUCER DISPLACEMENT; SCALE: NONE; RATING: 0 V; CURRENT: 1 A; POWER: 50 W; SUPPL P/N: WZA125-01ALV; ELECTRICAL CONNECTION: FRB CONNECTOR; MOUNT: UNIBALL SF16; PROBE DIAMETER: 50MM; RANGE: 100 MILLIMETER; DIMENSIONS: 585 MILLIMETER	EA
0018949	SENSOR: TYPE: LVDT DISPLACEMENT INDICATOR; RATING: 10-55 V; ELECTRICAL CONNECTION: FR; PROBE DIAMETER: 50 MM; SUPPL P/N: WZA25.02AL; PLUG; UNIBAL SF16; FOR HP TURBINE; RANGE: 60 MILLIMETER; DIMENSIONS: LG 400 MILLIMETER	EA
0037837	TACHOMETER: TYPE: ELECTRONIC; RANGE: 870-1800 RPM; RATING: 117 V AC 7 W 50/60 HZ; MODEL NO: 1820-1; REFERENCE NO: 3-Z7211; S1800; OUTPUT ADJUSTMENT 60 PULSES PER REVOLUTION	EA
0050998	ORIFICE: TYPE: METERING; DRAWING NO: 2990 REV 1; PART OF PINTLE, ITEM NUMBER 33, USED ON THE HYDRAPOWER TIP ASSY; SIZE: 1MM HOLE	EA
0054008	SENSOR, TEMPERATURE: STYLE DESIGNATOR: FLAME MONITOR MODULE; INCLOSURE TYPE: IP65; OUTPUT SIGNAL: RELAY; DRAWING NO: 18-A5-1/2 REV 1; REFERENCE NO: FE2020-CU; CONTROL; MAXIMUM OPERATING TEMP: 70 DEGREE CENTIGRADE; MOUNT: BOLTED	EA
0054010	SENSOR, TEMPERATURE: STYLE DESIGNATOR: GAS FLAME DETECTORS; INCLOSURE TYPE: IP65; OUTPUT SIGNAL: RELAY; SUPPL P/N: LT300-ICU; DRAWING NO: CREDFELD GEN7-A5-2 REV 1; IGNITER; GAS FLAME DETECTOR/ CONTROLLER; FOR USE ON IGNITION SERVICE PANELS; TYPE: INGNITER FLAME MONITOR; MAXIMUM OPERATING TEMP: 85 DEGREE CENTIGRADE; MOUNT: BOLTED	EA
0054810	GAUGE, VACUUM: DIAL SIZE: 90 MM; RANGE: 0-1000 MBAR; CASE MATERIAL: PLASTIC; TUBE MATERIAL: BRASS; CONNECTION TYPE: FBSP; CONNECTION SIZE: 3/8 IN; CONNECTION LOCATION: BACK; CONNECTION MATERIAL: BRASS; MOUNT: PANEL OR STEM; FILLED: GLYCERIN; SUPPL P/N: U82500; FIG NO: 1-11-152; REFERENCE NO: 1-11-152; U82500; 12260320; NEGATIVE SUCTION, 50M/L DIVISIONS, WITH CHEMICAL SEAL/DIAPHRAGM	EA
0120722	PROBE: TYPE: TILT PENDANT; DIAMETER: 49 MM; LENGTH: 300 MM; RATING: 24 VDC 1 A; CABLE LENGTH: 3.5 M; MATERIAL: DI; REFERENCE NO: 20-32; COMPLETE WITH POWER CABLE	EA
0121022	THERMOSTAT: TYPE: CONTROL; CURRENT: 2.6 A; SUPPL P/N: 883334; MODEL NO:	EA

	T70; REFERENCE NO: 409.1132; RANGE: 20-150 DEGREE CENTIGRADE; POTENTIAL: 380 VOLT ALTERNATING CURRENT	
0121178	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0-193 KPA; INDICATOR; WITH RED ALERT 360DEG VISIBILITY	EA
0121688	SWITCH, PRESSURE: TYPE: GAS; RANGE: 3-30 BAR; POTENTIAL: 380 VAC; CURRENT: 16 A; ACTION: SPDT; CONNECTION: BOTTOM 11 MM NPT; DIMENSIONS: WD 80 X LG 85 X HT 82 MM; ENCLOSURE RATING: IP67; REFERENCE NO: P77BEA9350; HP TRIP FOR AIRCON UNITS, USED ON FREON GASSES, WITH MANUAL RESET BUTTON, 20MM CONDUIT	EA
0123706	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0-6 BAR; POTENTIAL: 220 V; CURRENT: 10 A; ACTION: SPDT; CONNECTION: BOTTOM 11 MM NPT; DIMENSIONS: WD 85 X LG 85 X HT 52 MM; ENCLOSURE RATING: IP67; SUPPL P/N: PENN-P77AAA-9300; OPEN-LOW, 20MM CONDUIT	EA
0123716	SWITCH, PRESSURE: TYPE: OIL; RANGE: 65 KPA; POTENTIAL: 220 VAC; ACTION: SPDT; CONNECTION: NUT FLARE 1/4 IN; ENCLOSURE RATING: METAL; SUPPL P/N: 60B0168; PUSH TO RESET; DELAY 120 SECONDS	EA
0138190	PICK UP: TYPE: DISPLACEMENT; APPLICATION: HP CONTROL VALVE TURBINE; MODEL NO: DI510; LINEAR MEASURING RANGE: 140MM; INCLUDING A 1 METER CABLE WITH A STRAIGHT CONNECTER	EA
0138601	DETECTOR: TYPE: AUTO BINDICATOR; RATING: 250 VAC 15 A; REFERENCE NO: AB-S, LAD101700; TYPE AB-S; DIMENSIONS 203 MM OD X DIAPGRAGM 175 MM; OUTSIDE DIAMETER THICKNESS 116 MM; 6 MOUNTING HOLES; STAINLESS STEEL DIAPHRAGM SNAP ACTION SWITCH	EA
0143231	SEAT: TYPE: CONTACT; DIMENSIONS: ID 14 X OD 45 X THK 49.2 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 7278; REFERENCE NO: HAGT439151P1; HAGT439151; 7278; FOR 22KV GENERATOR CIRCUIT BREAKER TYPE DR36U1750D	EA
0143593	METER, FLOW: TYPE: WATER; ENCLOSURE RATING: IP54; CALIBRATION COEFFICIENT: 30 DEG C; REFERENCE NO: KG D4630; AUXILLARY SUPPLY AC MAIN 220VOLTS; FREQUENSY 50HZ; LOADING WITHOUT LIMIT SWITCH APPROXIMATE 8.5VA; WITH LIMIT SWITCH APROXIMATE 12.5VA; TEMPERATURE COMPENSATION 5-90 DEG C; ADMISSIBLE BURDEN 0-800 OHMS; RESIDUAL RIPPLE SMALLER THAN 0.1PCT; OUTPUT SIGNAL 0-20MA; POTENTIAL: 190-240 VOLT ALTERNATING CURRENT	EA
0148024	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-15 A; READOUT: ANALOG; STYLE: PANEL MOUNT; FACE SIZE: SQ 96 MM; 1AMP	EA
0148044	METER, ELECTRICAL: TYPE: VOLT; RANGE: 0-400 V; READOUT: ANALOG; STYLE: PANEL MOUNT FLUSH; FACE SIZE: 9.5 X 9.5 X 3.8 MM; OPERATION: MOVING IRON; SUPPL P/N: T24402VGSCSC; REFERENCE NO: QF334; TEST VOLTAGE 2 KV; DIRECT READING; SILICON DAMPED; TYPE VF96	EA
0148091	METER, FLOW: TYPE: STATOR COOLING SYSTEM; MATERIAL: ALUMINUM; DESIGN RATING: 1.5 BAR; MODEL NO: 6/20E; REFERENCE NO: E45054084; H2 LEAKAGE DETECTOR; CONNECTION: 26 MM FNPT; RANGE: 0.04-6 CUBIC METER PER HOUR; MEDIUM: GAS	EA
0148095	DEVICE: TYPE: SIGNAL CONDITIONER; APPLICATION: DISPLACEMENT TRANSDUCER DT210; SUPPL P/N: MD152.1/24VDC; REFERENCE NO: V793; M1-02, BOX ABA104M1	EA
0148182	TRANSMITTER: TYPE: SPEED PICK UP; OUTPUT: 0-20 MA; SUPPLY: 10-30 VDC; SUPPL P/N: FTG 1087 SS 19; FERROSTATGEBER ITEM NUMBER 91003; 5M; RANGE: 0.2-4.5 MILLIMETER	EA
0148267	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-2.5 A; READOUT: ANALOG; STYLE: EDGEWISE FLUSH PANEL MOUNT; FACE SIZE: SQ 96 MM; REFERENCE NO: FSD0-2-5A; 50MV	EA
0148474	COMPARATOR: TYPE: VOLTAGE WINDOW; SUPPL P/N: SP230-380V-AC-DP; 380 VAC, THREE PHASE, TYPE: VC-180; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0148476	MONITOR: RANGE: 0-1 A; 0-100 PCT; POWER SOURCE: 220 VAC; SUPPL P/N: CM193; RHOMBERG, RELAY CONTACTS 5PDT, 3 PHASE CURRENT	EA
0149136	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-400-800 A; READOUT: ANALOG; STYLE: EDGEWISE FLUSH PANEL MOUNT; FACE SIZE: SQ 96 MM; IN 20A DIVISION,	EA

	400/1A, FED FROM 1A CT, SECONDARY WITH 100PCT CONDENSED OVERLOAD SCALE	
0149202	METER, ELECTRICAL: TYPE: VOLT; RANGE: 0-500 VAC; READOUT: ANALOG; STYLE: PANEL MOUNT; FACE SIZE: SQ 96 MM; OPERATION: MOVING IRON; SUPPL P/N: FA96; REFERENCE NO: QF335; FOR AC, CLASS1.5	EA
0149219	TRANSDUCER: TYPE: DIFFERENTIAL PRESS; INPUT: 30-300 MBAR; OUTPUT: 0-20 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 7MF1103-1AC32-1BE; FLOW PN100, 4 WIRE CONNECTION, LINEAR RISING, 1PG 13.5 CABLE GLAND, WITH BUILT IN INDICATOR, CELL FILLING SILICONE OIL, STANDARD MECHANISM CLEANING PROCEDURE, IN MBAR 75 TO 300	EA
0150862	ANALYZER, GAS: TYPE: OXYGEN; SUPPL P/N: ZR01A01-01; MODEL NO: ZIRCONIA CELL; CELL ASSEMBLY	EA
0150863	ANALYZER, GAS: TYPE: OXYGEN; SUPPL P/N: ZR22G-040-SKCTMEA; REFERENCE NO: 071VA012; 8071; NY4449-4-88; FLANGE CONNECTION JIS5K 65A FF, LOW TEMPERATURE DETECTOR, FOR ECONIMIZER OUTLET MATRIX THERMOCOUPLES, MS CODE Z021D2-040-JA, LENGTH FROM FLANGE TO END 400MM; POWER SOURCE: 220VAC	EA
0151020	KIT: TYPE: REPAIR CONVERSION; APPLICATION: SILICA ANALYZER; REFERENCE NO: EIL8062; 8061042; ON CHEMICAL PANEL	EA
0151863	GLASS, SIGHT: DIMENSIONS: LG 75 MM; MATERIAL: BRASS; SUPPL P/N: 904715-0018; 50 MM VISIBLE LENGTH; CONNECTION THREADED; 2 SECTIONS; FOR USE WITH DIAMOND POWER RETRACTABLE SOOTBLOWER TYPE IK545	EA
0151907	THERMOSTAT: TYPE: GEYSER; CURRENT: 20-0.1 A; MODEL NO: VKF; REFERENCE NO: 0CT-88; CAPILIARY LENGTH 150MM; RANGE: 40-70 DEGREE CENTIGRADE; POTENTIAL: 250 VAC/DC	EA
0152177	GAUGE, COMPOUND: RANGE: -100 TO 900 KPA; DIAL SIZE: 150 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: MS; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; TYPE: BOURDON TUBE; REFERENCE NO: RH40 P 502; SPRING TUBE PRESSURE GAUGE, RED LINE AT 850 KPA	EA
0152180	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL; FILLED: SILICON; MODEL NO: 521-100SA-42B2; REFERENCE NO: 123T4239; ADJUSTABLE MICROMETER POINTER; RANGE: 0-6000 KILOPASCAL	EA
0153437	GAUGE, PRESSURE: DIAL SIZE: 63 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; REFERENCE NO: LF25S1; RANGE: 0-4000 KILOPASCAL	EA
0153539	SENSOR: TYPE: MEASURING INSERT; REFERENCE NO: C75451-A2004-B113; FOR DIFFERENTIAL PRESSURE TRANSDUCER, PN100/PN315/500; RANGE: 200-1000 MILLIBAR	EA
0153559	THERMOMETER, DIAL: STEM LENGTH: 130 MM; DIAL SIZE: 5 IN; CONNECTION LOCATION: BOTTOM; CONNECTION: 3/4 IN-BSP; MATERIAL: STAINLESS STEEL; SHEATH DIAMETER: 6 MM; SUPPL P/N: 50-EI60ES040; REFERENCE NO: T125248A; STEM THICKNESS 6MM; RANGE: 0-100 DEGREE CENTIGRADE	EA
0153607	THERMOMETER, DIAL: STEM LENGTH: 300 MM; DIAL SIZE: 100 MM; CONNECTION LOCATION: BOTTOM; CONNECTION: 1/2 IN-NPT; MATERIAL: STAINLESS STEEL; SUPPL P/N: TMV100; REFERENCE NO: J77 BSP; BI-METAL; RANGE: 0-120 DEGREE CENTIGRADE	EA
0153732	THERMOCOUPLE: TYPE: E; SHEATH DIAMETER: 4 MM; DESIGN LENGTH: 21 M; TEMPERATURE RANGE: 0-800 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION NONE; WIRE SIZE 1MM	EA
0153738	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 29 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; JUNCTION: SINGLE; MINERAL INSULATED; INCLUDING 250MM TAILS; ITEM USED ON BOILER 2; CONNECTION NONE; WIRE SIZE 1MM	EA
0153754	THERMOCOUPLE: TYPE: J; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 320 MM;	EA

	TEMPERATURE RANGE: 0-800 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; REFERENCE NO: 76KU-DRW; C/W BZA HEAD AND WITH 150MM LONG X 17.5MM OD SS EXTENSION SCREWED 3/8 IM BSP; WITH THE OPEN END PLUGGED TO ALLOW CLEARANCE HOLE FOR M1 ISO POT; 75MM FLEX-TAIL TERMINAL BLOCK INCLUDED; WIRE SIZE 1MM	
0153881	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 3/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: STEM; FILLED: SILICON; REFERENCE NO: 213-40-100; ADJUSTABLE MICROMETER PIONTER; RANGE: 0-600 KILOPASCAL	EA
0153883	GAUGE, PRESSURE: DIAL SIZE: 63 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: STEM; FILLED: SILICON; CALIBRATION 1MPA SECT, LABEL INDICATING; RANGE: 250 KILOPASCAL	EA
0153884	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM; WIRE: 4; SHEATH MATERIAL: TUNGSTEN CARBIDE; HEAD: YES; REFERENCE NO: T2; ELEMENT SIZE DIA 17.5 MM X LG 450 MM; ELEMENT T1; 10SWG IN A 17.5 MM OD FIREBIRD BLUE SHEATH 8 3/4 INCH BSP HEX COLLAR WELDED ON 300 MM IMMERSIONC/W BZA HEAD M20 X 105; CABLE ENTRY SHEATH BELOW COLLAR PLASMA COATED WITH DEPTH 0.015 INCH	EA
0153958	GAUGE, PRESSURE: CONNECTION TYPE: BSP; CONNECTION SIZE: 1/8 IN; CONNECTION LOCATION: BACK; SUPPL P/N: 77/40; 5-100; REFERENCE NO: 439-1001; USED ON REGULATOR ON GEN 687 MVA; INPUT; RANGE: 0-1000 KILOPASCAL	EA
0154275	GAUGE, PRESSURE: DIAL SIZE: 60 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; RANGE: 0-40 MEGAPASCALS	EA
0154302	THERMOSTAT: TYPE: FRIDGE; CURRENT: 6 A; REFERENCE NO: ATEA A02-1000; FOR SINGLE DOOR WITH KNOB, USED ON THE AIRCON.; RANGE: 3-26 DEGREE CENTIGRADE; POTENTIAL: 250 VOLT ALTERNATING CURRENT	EA
0154626	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; ADJUSTABLE MICROMETER POINTER; RANGE: 0-400 KILOPASCAL	EA
0154627	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; FILLED: SILICON; REFERENCE NO: Q100116; WITH ADJUSTABLE MICRO POINTER; LABLE INDICATING; RANGE: 0-1 MEGAPASCALS	EA
0154629	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 15 MM; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; REFERENCE NO: PB8/ A100SS/Y; 2 KPA DIVISIONS; RANGE: 0-100 KILOPASCAL	EA
0154632	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; WITH ADJUSTABLE MICRO POINTER; RANGE: 0-600 KILOPASCAL	EA
0154633	GAUGE, COMPOUND: RANGE: -100 TO 60 KPA; DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; DIAL IN 5 KPA DIVISIONS	EA
0154634	GAUGE, COMPOUND: RANGE: -100 TO 500 KPA; DIAL SIZE: 100 MM; CONNECTION	EA

	TYPE: NPT; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; COMPLETE WITH ADJUSTABLE MICRO POINTER	
0154635	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; LABEL INDICATING; RANGE: 0-10 MEGAPASCALS	EA
0154636	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: NPT; CONNECTION SIZE: 1/4 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; COMPLETE WITH ADJUSTABLE MICRO POINTER, DIAL IN 5 KPA DIVISIONS; RANGE: 0-2.5 MEGAPASCALS	EA
0154639	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 1/2 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: STEM; FILLED: SILICON; REFERENCE NO: PB8-A100SS-Y; SS INTERNALS; ADJUSTABLE MICROMETER POINTER; PLUS CHEMICAL SEAL; UPPER FLANGE 1/2 IN SS; BOTTOM FLANGE 1/2 IN NPT SS; LABEL INDICATING SILICONE; RANGE: 0-1 MEGAPASCALS	EA
0154643	GAUGE, DIFFERENTIAL PRESSURE: RANGE: 0-250 KPA; DIAL SIZE: 150 MM; CONNECTION SIZE: 3/4 IN; CASE MATERIAL: STAINLESS STEEL; CONNECTION MATERIAL: STAINLESS STEEL; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL; CONNECTION TYPE: BSP; SUPPL P/N: DDB/B150SS; SS TUBE MATERIAL, NON FILLED, MORBOF STAT 637, WITH 2 ELECTRICAL CONTACTS, WITH ADJUSTABLE ALARM SETTING, MAX STATIC PRESSURE 2500 KPA	EA
0154646	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 3/8 IN; CASE MATERIAL: STAINLESS STEEL; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: SILICON; SUPPL P/N: 100MIX/A1/2; RANGE: 0-1000 KILOPASCAL	EA
0154655	THERMOMETER, DIAL: STEM LENGTH: 200 MM; DIAL SIZE: 100 MM; CONNECTION LOCATION: BOTTOM; CONNECTION: 20 MM BSP; MATERIAL: STAINLESS STEEL; MODEL NO: K290; RANGE: 0-60 DEGREE CENTIGRADE	EA
0154886	GAUGE, PRESSURE: DIAL SIZE: 100 MM; CONNECTION TYPE: BSP; CONNECTION SIZE: 3/8 IN; CASE MATERIAL: MS; TUBE MATERIAL: BRASS; CONNECTION MATERIAL: BRASS; CONNECTION LOCATION: BOTTOM; MOUNT: PANEL OR STEM; FILLED: NONE; NON FILLED WITH BRS INTERNALS; RANGE: 0-1600 KILOPASCAL	EA
0178759	COMPUTER: TYPE: KEYPAD DATA SET; PRECIPS PC1000 + 1001	EA
0179444	CONTROL: TYPE: LEVEL ALARM DISPLAY; COAXIAL CABLE, CONDUCTOR RG58, POSITION 1	EA
0186202	WINDOW, SIGHT: MATERIAL: GLASS; DIMENSIONS: OD 31.85 MM; TYPE: OIL LEVEL; SUPPL P/N: 395539-1119; DAIMOND POWER	EA
0211803	DETECTOR, RESISTANCE TEMPERATURE: TEMPERATURE RATING: 0-100 DEG C; RESISTANCE: 100 OHM; WIRE: 3; SHEATH MATERIAL: SS GR 316; SUPPL P/N: CLASS- A PT100; ELEMENT SIZE 6MM DIA X 280MM LG, SUPPLIED WITH 5M PVC CABLE 105 DEG CELCIUS, MAGNESIUM POWDER FILLED MGO, WITH POT SEAL/SUPPORT SPRING	EA
0217729	KIT: TYPE: REPAIR; APPLICATION: AMPLIFIER PILOT; COMPRISING: DIAPHRAGM; O-RING; SEAL; SUPPL P/N: 283SK	EA
0223826	POSITIONER, VALVE: TYPE: ELECTROPNEUMATIC; SUPPLY PRESSURE: MAX 6.2 BAR; INPUT: 4-20 MA DC; MANUF P/N: FS3661-22; FS 3661-22; INSTRUMENT TYPE: 3661; ACTION: DIRECT; BYPASS: NO; INSTRUMENT GAUGE: YES; OUTPUT GAUGES: 0-160 PSI/MPA; HAZARDOUS AREA APPROVAL: FMIS; PRESSURE CONNECTION: 1/4 NPT; CONDUIT CONNECTION: 1/2 NPT; FLOW SCANNER TEST FITTINGS: NONE; TRAVEL RANGE: 3/4 TO 2 INCH; AMBIENT TEMP LIMITS: -04 TO 140F; PROTECTIVE PLASTIC PLUGS: WITHOUT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA

0224340	DISPLAY UNIT: TYPE: LEVEL SENSOR; POWER SOURCE: 24 V; SUPPL P/N: 381; REFERENCE NO: MET 381 XX; FOR BUNKER LEVELS, SINGLE SIGNAL CONDITIONING INSTRUMENT AND INDICATION FOR CONTINUOUS MEASUREMENT WITH INTERGRATED LEVEL SWITCHES; 0-70 M; VEGAPLUS; VEGAMET	EA
0234324	SENSOR, FLOW: MEDIUM: LIQUID; DIMENSIONS: DIA 54 X WD 321 X HT 320 MM; FLOW RATE: 108 KG/HR; PRESSURE RATING: 100 BAR; MATERIAL: SS GR 314; ACCURACY OF 10PCT ON; DENSITY RANGE OF 0-5; DENSITY ACCURACY 0.0005 G/U; TEMPERATURE ACCURACY 1 DEG C; TEMPERATURE RATING -240 DEG C TO 204 DEG C; WETTED PARTS MUST BE CONSTRUCTED WITH SS 316; HOUSING TO BE CONSTRUCTED WITH SS 304; RANGE 0-82 KG/H; TYPE ELITE; WITH STEAM JACKET FLANGED VERSION WITH EXTENSION FOR WIRE CONNECTION; ITEM MUST COME COMPLETE WITH MICROMOTION CORIOLIS TRANSMITTER MODEL NUMBER: 5700C13AFZAZZZAZZZZ AND WITH 10FT SHIELDED CABLE PART NO: CFEPS1A010 AND J/BOX ASSEMBLY PART NO: SRPJBOXKITAL AND WITH CORRIOLIS METER MODEL NO: CMFS010M150N4FZEKZZ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0240574	CONTROLLER: TYPE: THYRISTOR DRIVE; RANGE: 0-380 VAC; RATING: 400 V 160 A 105 KW 3 PH; OUTPUT: 150 A; INPUT: 4 TO 20 MA; SUPPL P/N: K6550/AL/400/160A; FUSED CONNECTION IN LINE, MOUNTING BASE 400 X 330 X 250 MM TOP-BOTTOM, ENCLOSURE IP54 5 PCT ACCURACY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0244209	CONVERTER, SIGNAL: INPUT: 4-20 MA; OUTPUT: 0-20 MA; APPLICATION: TRANSMITTER P PRESSURE, SITRANS; SPECIFICATION: 7MF4997-2GC; 4-WIRE CONNECTION (V60 / V61); UC 24 V, 2XPG DOWNWARDS FOR 7MF4-2 AND 74MF4-3 BUT NOT FOR EX/HART; MOUNTING THREAD M20 X 1.5	EA
0246001	ANALYZER: TYPE: AL OXIDE MOISTURE SENSOR; RANGE: -80 TO 20 DEG C; MANUF P/N: M2LR; DEW POINT PROBE ACCURACY +/-3.6 DEG F(+/-2 DEG C) IN RANGE OF 140 TO -85 DEG F(60 TO -65 DEG C) REPEATABILITY +/-0.9 DEG F (+/-0.5 DEG C) IN RANGE OF 140 TO -85 DEG F (60 TO -65 DEG C) OPERATED PRESSURE 6 BAR RESPONSE TIME <63% IN MOISTURE CONTENT IMPEDANCE RANGE 50 K OHMS TO 2 M OHMS DEPENDING ON WATER VAPOUR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0246195	TRANSMITTER, FLOW: SUPPLY: 125/250 V 15/7 A; WORKING PRESSURE: 125 PSI; BODY MATERIAL: BRZ 85-5-5-5 ACID DIP; MODEL NO: 816BC; APPLICATION MILL GEARBOX, DIAL ALUMINIUM BACKGROUND WITH BLACK GRADUATIONS, POINTER BRASS PAINTED RED, WINDOW CLEAR ACRYLIC PLASTIC, HEAD GASKET GARLOCK 7022, SEAL VITON A, O RING SEAL, WEATHERPROOF HEAD, TELEFLO SWITCH SPDT; CONNECTION: 2 IN-NPT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0251523	GLASS, SIGHT: DIMENSIONS: WD 30 X LG 265 X THK 25 MM; MATERIAL: PERSPEX; COLOR: CLEAR; SHAPE: RECT; BETWEEN BOLTS 225 MM CENTRE, COMPLETE WITH BOLTS AND GASKET	EA
0251524	GLASS, SIGHT: DIMENSIONS: WD 30 X LG 185 X THK 25 MM; MATERIAL: PERSPEX; COLOR: CLEAR; SHAPE: RECT; 145 MM BETWEEN BOLTS CENTRES, COMPLETE WITH BOLTS AND GASKET	EA
0253059	SENSOR: TYPE: MAGNETIC FLOAT SWITCH; RATING: 230 VDC 0.5 A 50 W; MODEL NO: 60-ARV2-VS0-L330/12-2/V52A-EX; MATERIAL SS 316 TI (1.4571); IP65; OPERATING TEMPERATURE -30 TO 150 DEG C; TERMINAL BOX ALUMINIUM GUIDE TUBE LENGTH 330 MM; RANGE: -30 TO 150 DEGREE CENTIGRADE; DIMENSIONS: OD 12 MILLIMETER	EA
0500085	METER, ELECTRICAL: TYPE: AMP; RANGE: 0-100 A; READOUT: ANALOG; FACE SIZE: SQ 96 MM; OPERATION: COIL	EA
0557264	TRANSPONDER: POWER: 21-28 V; MANUF P/N: SPF 3500; REFERENCE NO: S24218-F14-A1; INPUTS: MONITORED ALARM LINES 4 OPERATING ON THE BASIS OF THE FIXED TRESHOLD DETECTION SYSTEM: VOLTAGE OF MONITOR: 20V ED ALARM LINE (MPL); LINE RESISTANCE: 140 OHMS; TERMINATING RESISTOR OF THE MPL:	EA

	3.3 KOHMS; CONNECTABLE DETECTORS PER MPL: 32; OUTPUTS: MONITORED OR NON MONITORED CONTROL OUTPUTS: 4; CONTROL VOLTAGE: 20V; CONTROL CURRENT PER OUTPUT: 50 MA-126 MA; SUM ON THE OUTPUT CURRENTS: 210 MA; CONNECTION TERMINALS: SCREWLESS; WIRE CROSS SECTION PRE-TERMINAL: 1.5 MM SQUARE; ENCLOSURE IN ACCORDANCE WITH EN 60529: IP 54; HOUSING: POLY-CARBONATE; COLOR: LIGHT GREY (SIMILAR RAL 7035); WEIGHT: 0.370 KG; PERMITTED AMBIENT TEMPERATURE: -25 TO +70 DEG C; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
0587692	ANALYZER, GAS: TYPE: H2; O2; MANUF P/N: 1035324; ADOS GTR 196 EX; THIS PART NUMBER ALSO INCLUDE THE SOLENOIDE VALVES; INLINE FILTER; FLOW SWITCH; METERING VALVE AND REGULATOR NECESSARY TO INSTALL THIS ANALYSER	EA
0600177	ANALYZER: TYPE: CO2; RANGE: 0-100 H2; POWER SOURCE: 220 V 50 HZ; OEM P/N: 45054965; 0-100 PCT OF AIR WITH FLAME TRAPS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0600347	TRANSMITTER, LEVEL: RANGE: 0-15 M; OUTPUT: 4-20 MA; SUPPLY: 12-35 VDC; WORKING PRESSURE: 3 BAR; TYPE: RADAR; BODY MATERIAL: PLASTIC; ELECTRICAL CONNECTION: 2 WIRE; ENCLOSURE: IP67; SUPPL P/N: VEGAPULS 31; 80 GHZ; COUNTER NUT TO BE INCLUDED; INTERGRATED ON SITE DISPLAY AND 3 KEY OPERATION; CONNECTION: G1 1/2 IN THREADED BOSS	EA
0600735	TRANSMITTER, LEVEL: RANGE: 0-20 M; OUTPUT: 4-20 MA; SUPPLY: 11-32 VDC; WORKING PRESSURE: 0-2.5 BAR; TYPE: ULTRASONIC; ELECTRICAL CONNECTION: 2 WIRE; APPLICATION: FILTERED WATER; ENCLOSURE: IP68; NON CONTACT ULTRASONIC TIME OF FLIGHT: DISTANCE: 20M; CONSUMPTION: IW: COMMUNICATION: PROFIBUS PA: ACCURACY +/-0.2 PERCENTAGE; PROCESS T: -40 TO 80 DEG C; CONNECTION: FLANGE	EA
0615524	INDICATOR: TYPE: TRANSDUCER DISPLACEMENT; SCALE: 0 TO 1.62 MM; RATING: 0 TO 5 VDC; SUPPL P/N: LP-100F-15 RES 1K; RANGE: 0-100 PERCENT; DIMENSIONS: WD 22 X LG 240 MILLIMETER	EA
0620775	ANALYZER, GAS: TYPE: HYDROGEN; DISPLAY: FULL COLOUR TOUCH SCREEN; MODEL NO: NOVA 430QNA4; METHOD OF DETECTION THERMAL CONDUCTIVITY HYDROGEN DETECTOR; HEATED AND TEMPERATURE CONTROLLED FOR MAXIMUM STABILITY; MEASURING RANGE: 0 TO 10 PERCENT HYDROGEN IN AIR; RESOLUTION: 0.1 PERCENT HYDROGEN; ACCURACY AND REPEATABILITY -/+ TO 1.0 PERCENT OF FS; DRIFT: LESS THAN 1 PERCENT OF FS PER MONTH; RESPONSE TIME: 10 TO 15 SECS TO 90 PERCENT STEP CHANGE; AMBIENT TEMPERATURE RANGE: 0 TO 50 DEG C; LINEARITY +/- 1 PERCENT OF FS DISPLAY; OUTPUT: ISOLATED 4 TO 20 MA OUT FOR DATA TRANSMISSION GREATER THAN 30 M; SUPPLY POWER: 220VAC AT 50HZ; CABINET: NEMA 4 WALL MOUNT WATER PROOF GENERAL PURPOSE NONE HAZARDOUS AREA RATING; ALARM: LOW FLOW RELAY SET C/W INDICATOR LIGHT; SAMPLING: BUILT IN SAMPLE PUMP FILTER AND FLOW METER; ERS A TO INCLUDE: WARNING ALARM HIGH H2 RELAY SET C/W INDICATOR LIGHT POTENTIAL FREE CONTACT N/O	EA
0624589	DISPLAY UNIT: TYPE: PRE PROGRAMMED; POWER SOURCE: 24 VDC; READOUT: 160 X 64; DIMENSIONS: WD 1.7 X LG 10.4 X HT 6.4 MM; SUPPL P/N: ILSS-002; 06 DOT STANDARD FONT; ITEM IS USED ON THE MILLING PLANT INTELI LUB SYSTEM	EA
0628211	SWITCH, PRESSURE: TYPE: AIR; RANGE: 0.12 BAR; ACTION: SPDT; ENCLOSURE RATING: NEMA 4; SUPPL P/N: D1T-H2-SS; ADJUSTABLE RANGE 0.001-0.2 BAR; CONNECTION: BOTTOM 1/4 IN-NPT; POTENTIAL: 250 VOLT ALTERNATING CURRENT; CURRENT: 10 AMPERE; CONTACT ARRANGEMENT: 1NO 1NC	EA
0638611	CONVERTER: TYPE: ANALYZER CONTROL UNIT; INPUT: 230 V 1100 W; OUTPUT: 5-24 VDC; APPLICATION: PROCAL P2000; REFERENCE NO: 1-0200; PANEL PC INTEGRATED WITH AN OUTPUT/INPUT UNIT USED TO CONTROL & LOG ALL INFORMATION RECEIVED FROM THE OPTICAL HEAD UNIT; SINGLE PHASE	EA
0638666	CONVERTER: TYPE: PROCAL I/P AND O/P UNIT; INPUT: 230 VAC; OUTPUT: 4-20 MA; APPLICATION: ACU; RATING: 230 VAC 1100 W; REFERENCE NO: 1-0101; SERIAL CABLE TO PROVIDE ADDITIONAL INPUTS CURRENT OUTPUT AND RELAY OUTPUT TO ANY SYSTEM; EACH UNIT CAN PROVIDE UP TO 3 L INPUT OR OUTPUT	EA

	MODULES (MIXED ALLOCATION) HAS UP TO 32 RELAYS AND PROVIDE 16 DIGITAL INPUT	
0639569	DEVICE: TYPE: CONDUCTIVITY METER PROBE 5M WITH CABLE; APPLICATION: DEMIN PRODUCTION PLANT; SUPPL P/N: CLS21D-C1E1; CYK10-A051; MEASURING RANGE: 0.04-20 K EQUALS TO 1 MOCROSIEMENS PER CENTIMETER; PROCESS CONNECTION: THREAD G1, PES; 10UB11/12/13/31/33A001	EA
0644872	ANALYZER: TYPE: AMI SILITRACE; RANGE: 0.5-1000 PPB; POWER SOURCE: 100-240 VAC; SPECIFICATION: A-25.431.100; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0661589	MONITOR: TYPE: HMI TOUCH SCREEN; RANGE: 0-3000 KPA; POWER SOURCE: 220 V; SUPPL P/N: MP277	EA
0681652	GAS: TYPE: S CANDISK 103/110; PURITY: O2 20.9 PCT; CONTAINER: 1.55 L; 19.75 PERCENT GAV VALUE; TOLERANCE: PLUS OR MINUS 5 PERCENT; BALANCE N2; DO NOT REFILL CAN; COMPLETE WITH TEST CERTIFICATE CERTIFICATE	EA
0686790	TRANSMITTER: TYPE: FERROSTAT SPEED SENSOR; OUTPUT: 0-10 KHZ; SUPPLY: 10-30 VDC; SUPPL P/N: DSF1610.00 SHV; ITEM NUMBER: 374Z-03933; 5M TEFLON CABLE; RANGE: 0.05 TO 20 KILO HERTZ	EA
0698976	RECORDER: TYPE: PAPERLESS GRAPHIC; POTENTIAL: -20V TO 20 VDC; REFERENCE NO: 6100A/U12/XXX; RELAY: 250VAC 2A; 12 INPUT CHANNELS; PANEL MOUNT; LOCK: NO MEDIA; CASE COLOUR: SILVER; VH POWER SUPPLY: 85-264VAC 45-65HZ; 24V POWER SUPPLY NOT FITTED; NON STANDARD OPTION; INTERNAL MEMORY: 096M; REMOVABLE MEDIA CF COMPACT FLASH AND FRONT USB PORT; 08G MEMORY CARD NOT FITTED; NOMS USB MEMORY STICK NOT FITTED; 0RUSB NO REAR USB PORTS; 0SRL NO SERIAL COMMS FITTED; 06 CHANGEOVER RELAYS FITTED; 24 QTY OF SHUNTS; SHUNTS: 100 OHM; WL005 EXTENDED WARRANTY; BRIDGE FULL SOFTWARE; REVIEW AND QUICK CHART (RLITE) REVIEW LITE AND QUICKCHART LITE; 6 GROUPS STANDARD; MTC36 MATHS; TOTALIZERS AND COUNTERS: 36 VIRTUAL CHANNELS; CODE: 6100A/U12/PANEL/NOLCK/ SLV/VH/NONE/ XXXXXX/ 096M/CF/ 008G/NOMS/0RUSB /0SRL/ NONECAL/06/00/00/00/00/12/100/WL005 /BFULL/RLITE/NOADT/NOSM/06GROUP /MTC36/NOBTCH /NOSB/NOMSTR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0749176	CONTROLLER, ELECTRONIC: TYPE: SPEED CONTROLLER; POTENTIAL: 220 VAC; OUTPUT: 90 VDC; INPUT: 4-20 MA; MOUNTING: SCREW MOUNT; CURRENT: 5 A; OEM P/N: 5001TCP; THIS CONTROLLER MODULE IS USED TO DRIVE A MAGNETIC CLUTCH WHICH INCREASE OR DECREASE THE COAL FEEDER SPEED.	EA
0773417	THERMISTOR: RANGE: -; REFERENCE NO: 1-0004; PROCAL TEMPERATURE PROBE ANALYZER HEAD	EA
0773418	TRANSDUCER: TYPE: -; INPUT: -; POWER SOURCE: -; REFERENCE NO: 1-0005; PROCAL 2000 PRESSURE TRANSDUCER ASSEMBLY	EA
0773419	TRANSMITTER: TYPE: -; OUTPUT: -; SUPPLY: -; REFERENCE NO: 1-0007E; IR SOURCE	EA
0773897	CONTROLLER, ELECTRONIC: TYPE: VOLTAGE; POTENTIAL: 400 V; OUTPUT: 75 KV; INPUT: 400 V	EA
0777382	THERMOSTAT: TYPE: GEYSER THERMOSTAT; CURRENT: 22.7 A; POWER SUPPLY: 220 VAC; CONTROL METHOD: AUTO CUT OFF; TEMPERATURE RATING: 30-83 DEG C; 200L AND 150 L	EA
0782056	ANALYZER: TYPE: PH PROBE AND CONTROLLER; RANGE: 5-9 PH; POWER SOURCE: 240 V; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
0785044	METER, FLOW: TYPE: ELECTROMAGNETIC; MATERIAL: CARBON STEEL; APPLICATION: FLOW MEASUREMENT; POWER SUPPLY: 100 - 240 VAC; DESIGN RATING: 40 BAR; PROCESS CONNECTION: PN16, CARBON STEEL, FLANGE EN1092-1; ELECTRICAL CONNECTION: GLAND M20; DISPLAY: PROMAG 400; BODY MATERIAL: ALUMINUM COATED; ENCLOSURE RATING: IP68 TYPE 6P; CURRENT: 4-20 MA; NOMINAL BORE: 1-10 IN; OUTPUT: 4-20 MA; POWER: 50 W; POTENTIAL: 240 V AC/DC; RANGE: 0-500 M3/HR	EA

0787031	ASSEMBLY: TYPE: SENSOR; APPLICATION: TEMPERATURE SENSOR; SUPPL P/N: 1-0059; THIS IS THE TEMPERATURE ASSEMBLY BOARD WHERE THE PROTEA P2000 GAS ANALYSER SAMPLE TEMPERATURE CONNECTS TO.	EA
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2.1 Purchaser's design

The Supplier shall supply goods that fully comply with the specifications, drawings, standards, and requirements set out in the Contract Data and the Goods Information

The goods shall be new, of merchantable quality, free from defects in design, materials, and workmanship, and suitable for the intended purpose as described in the Contract

Any deviations from the specified requirements must be formally submitted for approval by the Purchaser before delivery.

The Supplier shall ensure that any materials or components used in the goods are compatible with Eskom's operational environment and meet Eskom's safety and environmental requirements

The Supplier shall package and mark the goods in accordance with best industry practices and any specific instructions provided by the Purchaser to prevent damage during transit and storage.

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

The Supplier shall supply goods that fully comply with the specifications, drawings, standards, and requirements set out in the Contract Data and the Goods Information

Any deviations from the specified requirements must be formally submitted for approval by the Purchaser before delivery.

2.3 Use of *Supplier's* design

The *Purchaser* is allowed to use the designs, drawings and documents for the purpose of verifying goods supplied goods and the fulfilment of PQP/ CQP/QCP

2.4 Manufacture & fabrication

Not Applicable

2.5 Factory acceptance testing (FAT)

The *Supply Manager* will inform the *Supplier* on the purchase order if factory acceptance test is required before delivery. The factory acceptance test will be performed by the engineer from Eskom. The Supply Manager shall provide the information of engineer to witness factory acceptance test. The test procedure or plan must be shared with the *Supply Manager* for acceptance before the actual testing date.

2.6 Other tests and inspections and commissioning in place of use

All goods are to be tested, and quality checked by the *Supply Manager* engineers upon Delivery. The *Supplier* does not need to witness the test and quality checks.

2.7 Operating manuals and maintenance schedules

Where applicable; test certificates, material certificate, manuals, General Arrangement (GA) drawing/s, Approved Inspection Authority (AIA) stamp and signature provided as required. All documents must be obtained during or before delivery of goods.

Data capturing forms information must be supplied and must meet an acceptable level

3. Supply Requirements

The following are supplier's requirements:

a) The Spares will be supplied to the “goods received” section of the Lethabo main store where they will be received by the material management section. The materials will be delivered with all of the required data books and certificates, where required.

Lethabo Stores Working Times:

Monday – Thursdays: 07h00 – 16h00

Fridays: 07h00 – 12h00

b) Only once the spares have passed the Quality control checks and are booked into the system can payment be affected.

c) The Delivery and Transport Costs (including off-loading items) must be included in the quotation.

The following packaging requirements should be adhered to:

a) The material shall be packaged in such a manner that they can be transported and stored for an extended period of time without resulting in damage to the spares.

b) This includes damage due to moisture ingress, corrosion, vibration from the power station etc.

c) Where lifting gear is utilized to move the goods, the packaging should allow the lifting operation and ensure that the goods are not damaged in any way during the process.

d) It will also not be necessary to open packaging for any lifting or transport operation.

e) Where eyebolts are fitted to move the goods, these eyebolts should be fitted in such a way that they can be easily removed and replaced with the Purchaser's eyebolts, ensuring that the packaging stays intact.

f) Where possible the packaging should ensure that parts can be positively identified through the packaging. Where this is not possible, the packaging should allow opening and closing of the packaging and still maintain the packaging integrity afterwards.

g) Delivery packaging to have the following detail on it as a minimum (removable adhesive sticker if possible):

- Order number,
- A short description of the component
- Eskom stock number
- Manufacturing date, where possible

4. Specification of the services to be provided

Refer to Lethabo Power Station scope of work for the supply and delivery of Instrumentation and Controls on a once-off order to Lethabo Power Station.

5. Constraints on how the Supplier Provides the Goods

5.1 Programming constraints

All Goods shall be delivered in accordance with Clause 30.1 of this Contract, and any delays or changes to the delivery date shall be dealt with in accordance with Clause 16.1 of this Contract.

5.2 Work to be done by the Delivery Date

Not applicable to this contract.

5.3 Marking the goods

The Supplier shall mark all goods clearly and durably in accordance with the Purchaser's requirements and applicable standards.

Each item shall be labelled with at least the following information:

- Purchase Order number
- Supplier's name or identification
- Item description and part number or stock code
- Batch or serial number (where applicable)
- Date of manufacture or packing

The marking shall be legible, resistant to damage, and positioned so as not to impair the function or appearance of the goods.

Any deviations from these marking requirements must be approved in writing by the Purchaser prior to delivery

5.4 Constraints at the delivery place and place of use

The Supplier shall adhere to Eskom speed limit of 40 km/h while driving on site. The preferred delivery times are Monday to Thursday between 07:00-16:00 and Friday between 07:00-12:00. However, for urgent delivery, the Supplier will communicate with the Supply Manager to agree on the time and date of delivery.

The Supplier shall adhere to Eskom Life Saving rules.

5.5 Cooperating with Others

The Supplier cooperates with the Lethabo Power Station stores personnel during Delivery.

The Supplier co-operates with the Purchasers team in ensuring that the goods are delivered in accordance with all requirements.

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

a) The Supplier provides offloading people to assist with offloading at receiving.

NB: The Supplier offloading team names must be part of the valid approved safety file

5.7 Management meetings

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	When the need arises	TBC	Purchaser, Supplier, and Cross functional team members
Overall contract progress and feedback	When the need arises	TBC	Purchaser, Supplier, and Cross functional team members

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.

5.8 Documentation control

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.

The manufacturing data books shall be submitted in hardcopy and soft copy format.

5.9 Health and safety risk management

- a) The Supplier complies with Section 10 of Occupational Health and Safety Act (Act No.85 of 1993) when manufacturing any goods for this Contract.
- b) The Supplier shall comply with Site health and safety requirements for Lethabo Power Station when delivering goods
- c) Site Delivery safety requirements to be adhered to - And can be obtained through the Purchaser's Manager In line with the SHE specification
- d) The Supplier submits safety file for approval before access is granted
- e) The Supplier maintains the safety file validity in line with Site requirements
- f) The mode of transport for Delivery should comply with Site requirement in line with issued SHE specification
- g) Supplier to update their safety file yearly and each time they make changes on their staff or personnel
- h) The Supplier ensures that when changing a team member, the new team gets inducted and all process of safety file approval is adhered to- before gaining access to site

5.10 Environmental constraints and management

The Supplier shall comply with the environmental criteria and constraints when doing deliveries at Lethabo Power Station premises regarding:

- a) The vehicle used for Delivery; by ensuring that there are no oil spillages, and the vehicle emission is not emitting beyond limits
- b) The material used for supporting the goods being delivered are correctly disposed and are without harm to environment. The Supplier must comply with Site Environmental management plan (EMP) and other requirement.
- c) The Supplier complies with Environmental aspect and impact register
- d) The Supplier complies with all Site environmental management procedures, especially the waste management and oil spillages.

5.11 Quality

Supplier must ensure that product is packaged and transported in such a way that it safe, well stacked and preserved.

To ensure conformance to Quality Management Systems Standards the following standards must be followed:

- ISO 9001:2015 Quality Management System requirements.
- ISO10005 – Quality Management System Guidelines for Quality Plans
- ISO10006 – Quality Management Systems Guidelines for Quality Management in Projects
- ISO10007 – Quality Management Systems Guidelines for

Configuration Management ISO31000 – Risk Management Principles &

Guideline.

5.12 Invoicing and payment

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; Procedure for invoice submission and payment

- All Electronic invoices must be sent in PDF format only.
- An Invoice that was printed and then scanned to PDF by the Vendor is not acceptable as this is not an original tax invoice by SARS definition but a copy.
- The following wording needs to appear on the invoice: "Your invoice is encrypted in order to comply with SARS requirements that invoices, and statements sent electronically are tamperproof."
- All queries and follow up on invoice payments should be made by contacting the FSS Contact Centre: Tel: 011 800 5060 or email: fss@eskom.co.za.

5.13 Contract change management

The change management process to be followed as per the core clause 16.1. Any verbal instruction/communication must be backed with a written instruction; the use of minutes, letters or emails is accepted. Any communication must go through the *Purchaser's* manager.

5.14 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.

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

Early warning to be given by any of the Parties as soon either becomes aware of matters that could increase the total of total Prices, delay Completion etc. All the Compensation events will be implemented through the raising of an early warning. See NEC Core clause 16.1 and 63.1 and 63.2.

Risk and Mitigation Factor

RISK	MITIGATING FACTORS	LEVEL (HIGH/MEDIUM/LOW)
Safety : Non- compliance to all legal requirements.	1.Driver training & competence 2.Strict adherence to the rules and Eskom vehicle specifications 3.Strict adherence to Eskom offloading processes 4.Adherence to vehicle maintenance plans and daily inspections	High
Quality : Quality requirements	Category 2 - Quality Requirements to be met.	Medium

categorisation		
Any National and/or International Standards that the company is subjected to and the key internal controls that the company put in place to satisfy set standards	240-68099512 Form A: The tenderer must complete and sign this form to acknowledge and accept Eskom Supplier Quality Requirements as per QM 58 Specification and ISO 9001 Standard (category 2) 240-12248652 List of Tender Returnables: comply with stipulated documented information for evaluation purposes (category 2) 240-105658000 – Supplier Quality Management Specifications (QM 58)	Medium
Quality Management Documents Requirements	A fully detailed Quality Control Plan (QCP) for acceptance within three (3) weeks of the Contract Date, which details all the aspects of the quality management system to be applied. It includes the methods that will be utilized to ensure quality assurance, control and improvement of the identified activities as stated in the Scope of Works The service provider shall deliver the procured Steel with the data book. The data book shall consist of the following documents: • Signed off manufacturing quality control plan. • Destructive and Non-Destructive testing reports. • Visual and dimensional report • Heat treatment charts, chemical certificate and Hardness report. All concessions if there is any	Medium
Preservation and transportation Requirements	The service provider is to ensure that all products are preserved in their appropriate manner as described in their specifications or in Eskom's Preservation, Shipping and Transportation procedures as applicable. The service provider ensures that all storage requirements for products are properly implemented to preserve the products against adverse conditions, deterioration, damage, etc. Storage and preservation procedures for the different products must be submitted to the <i>client</i> for review and acceptance. The <i>client</i> may request to inspect the stored products at any given point during the storage period of the product	Medium
Environment	• Contractor to be familiarized with Lethabo waste management procedure. • Contractor to be familiarised with Eskom SHEQ Policy. • Contractor shall report all incidents or risks whilst on the job to the Eskom Project leader who will inform the environmental department • No work to be conducted on site	Medium

6. Procurement

1. 6.1 SDL&I Commitments: Undertakings by the Supplier

- 1.1 The Supplier shall adhere to the SDL&I Obligations set out below, covering Local Content; procurement/subcontracting from Black Designated Groups, Skills development, and Job Creation.
- 1.2 The Supplier undertakes to achieve and fulfil these SDL&I Obligations during the Contract Period or at an earlier date.

Local Content	Tenderer Proposal
	100%

Procurement from Designated Group	Tenderer Proposal
Black Owned	15%

Number of Jobs to be created	Number of Jobs to be retained

- 1.3 The Supplier shall keep accurate records and provide to Eskom reports on the actual delivery against the above SDL&I obligations on a quarterly basis.
- 1.4 Following the receipt of the report in clause 1.3 above, Eskom shall review the report, request supporting evidence where necessary and issue the supplier with a performance review report.
- 1.5 The supplier shall have one opportunity to request revision of the outcome by submitting new evidence to support its claims.
- 1.6 The supplier's failure to comply with the above SDL&I obligations constitutes substantial failure on the part of the contractor to comply with his obligations under this contract, therefore a penalty of 1% of the contract value shall be imposed.

7. List of drawings

7.1 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.
