

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS FOR A PERIOD OF FIVE (5) YEARS.



NEC3 Supply Contract (SC3)

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

and
(Reg No. _____)

for **Supply and delivery, of Thermocouples and RTD's at Lethabo Power Station for stock replenishment on an as and when required basis for a period of five (5) years.**

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CONTRACT No.

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS FOR A PERIOD OF FIVE (5) YEARS.

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:

Supply and delivery of Thermocouples and RTD's at Lethabo Power Station for stock replenishment on an as and when required basis for a period of five (5) years

The tenderer, identified in the Offer signature block, has

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

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

	The offered total of the Prices exclusive of VAT is	
	Value Added Tax @ 15% is	
	The offered total of the amount due inclusive of VAT is ¹	

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:**

Name &
signature of
witness

(Insert name and address of
organisation)

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*.

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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 *(Insert name and address of organisation)* _____

Date _____

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

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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	_____	Eskom Holdings SOC Ltd, Megawatt Park, Maxwell Drive, Sandton, Johannesburg, 2199
Name & signature of witness	_____	_____
Date	_____	_____

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C1.2 SC3 Contract Data

Part one - Data provided by the Purchaser

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for Options	
		X1: Price adjustment for inflation X2: Changes in the law X4: Parent Company Guarantee X7: Delay damages X17: Low-performance damages X13: Performance bond Z: Additional conditions of contract <i>X4 and or X13 will only be applied should financial analysis report recommends that the parent company guarantee, and/or performance bond be obtained.</i>
	of the NEC3 Supply Contract (April 2013) ²	(If the December 2009 edition is to be used delete April 2013 and replace by December 2013)
10.1	The <i>Purchaser</i> is (name):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state-owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	
	Fax No.	N/A
10.1	The <i>Supply Manager</i> is (name):	
	Address	Lethabo Power Station Private Bag X 415 Vereeniging 1930
	Tel	
	Fax	N/A

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

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e-mail

11.2(13)	The <i>goods</i> are	Thermocouples and RTD's	
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 • 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 <i>Supplier's</i> 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.	Date of last signature of the contract as agreed by both parties	
30.1	The <i>delivery date</i> of the <i>goods</i> is:	Thermocouples and RTD's • As per purchase order • Supplier to also keep minimum Thermocouples and RTD's (consignment stock) for items that are not kept at the supplier's warehouse and for items with long lead times. The minimum quantities will be as agreed by both parties.	<i>delivery date</i> As stipulated on purchase order as per the agreed programme
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 events arises	
31.1	The <i>Supplier</i> is to submit a first programme for acceptance within	One (1) week of the Contract Date.	
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 goods per Purchase Order.	
43.2	The <i>defect correction period</i> is	The Supplier corrects notified Defects within one	

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		(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.
	and the <i>defect access period</i> for	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
5	Payment	
50.1	The <i>assessment interval</i> is	Assessment will be done after five (5) days of every delivery
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 (30) days after assessment and receipt of undisputed contractor tax invoice ATTENTION: Eskom's standard policy on payment terms 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.
6	Compensation events	Shall be managed through core Clause 6 of the NEC3 SC.
7	Title	Will be managed through core 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 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

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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:	Total of the Contract Prices
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	Total of the Contract Prices
88.5	The <i>end of liability date</i> is	24 months after Delivery of the whole of the goods and services per purchase order.
9	Termination and dispute resolution	
90.1		NEC3 core clause 9 shall be applied for termination.
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 ICE-SA Division.
	Address	
	Tel No.	
	Fax No.	
	e-mail	
94.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA, a Division of the South African Institution of Civil Engineering, or its successor body (See www.ice-sa.org.za)
94.4(2)	The <i>tribunal</i> is:	arbitration
94.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of 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 of the Association of Arbitrators (Southern Africa) or its successor body.
	- if the arbitration procedure does not state who selects an arbitrator, is	
10	Data for Option clauses	
X1	Price adjustment for inflation	CPA shall be applied 16 months after the base date
X1.1	The <i>base date</i> for indices is	One month before the Tender closing date

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	The proportions used to calculate the Price Adjustment Factor are:	proportion	linked to index for	Index prepared by
		15%	Non-adjustable	Fixed
		100%		
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	2% per day for every missed delivery up to a maximum of 10% per purchase order price		
X13	Performance bond	X13 will only be applied should financial analysis report recommends that the parent company guarantee, and/or performance bond be obtained.		
X17	Low-Performance Damages	Limited to	5% of each line item per Purchase Order	
X17.1	The amounts for low performance damages are:	Percentage per line item	Performance level	
		1.5% per day	for delivery of wrong specification (Material)	
		2.5% per day	for not meeting quality standards including documents	
		1.5% per day	for not keeping keep minimum spares (consignment stock) for items that are not kept at the supplier's warehouse and for items with long lead times. The minimum quantities will be as agreed by both parties	
Z	The additional conditions of contract are	Z1 to Z15 always apply for Eskom		

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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

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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.

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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 <i>Supplier</i> 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 <i>Supplier</i> , or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors or the Subcontractor's employees,
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	means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent

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Action Action or Obstructive Action.

- Z12.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.
- Z12.2 The *Purchaser* may terminate the *Supplier's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Supplier* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Purchaser* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the *Purchaser* can terminate the *Supplier's* obligation to Provide the Services for this reason.
- Z12.3 If the *Purchaser* terminates the *Supplier's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.
- Z12.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Purchaser* does not have a contractual bond with the Committing Party, the *Supplier* ensures that the Committing Party co-operates fully with an investigation.

Z13Insurance

Z 13.1 Replace core clause 84 with the following:

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

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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 44 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 44 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

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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.

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Annexure A: Supply Requirements

The Supply Requirements for this contract are as follows:

1. The requirements for the supply are	Thermocouples and RTD's	
2. The requirements for transport are	Supplier must ensure that product is packaged and transported in such a way that it safe, well stacked and preserved	
3. The delivery place is	Lethabo Power Station. Deneysville Vaaldam Road. Vereeniging. 1930	
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	Supplier
	Loading the <i>goods</i>	Supplier
	Unloading the <i>goods</i>	Eskom
For international procurement	Undertake export requirements	N/A
	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

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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> is:	<table><tr><th><i>goods</i></th><th><i>delivery date</i></th></tr><tr><td>1 As per scope of work and on an and as and when required basis</td><td>As per the Purchase Order or agreed programme</td></tr><tr><td>2 Supplier to also keep minimum Thermocouples and RTD's (consignment stock) for items that are not kept at the supplier's warehouse and for items</td><td></td></tr></table>	<i>goods</i>	<i>delivery date</i>	1 As per scope of work and on an and as and when required basis	As per the Purchase Order or agreed programme	2 Supplier to also keep minimum Thermocouples and RTD's (consignment stock) for items that are not kept at the supplier's warehouse and for items	
<i>goods</i>	<i>delivery date</i>							
1 As per scope of work and on an and as and when required basis	As per the Purchase Order or agreed programme							
2 Supplier to also keep minimum Thermocouples and RTD's (consignment stock) for items that are not kept at the supplier's warehouse and for items								

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

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		with long lead times. The minimum quantities will be as agreed by both parties
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	%

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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.

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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");

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- 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

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PART 2: PRICING DATA

NEC3 SUPPLY CONTRACT

Document reference	Title	No of pages
C2.1	Pricing assumptions	2
C2.2	The <i>price schedule</i>	3

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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 *Purchaser* to pay to the *Supplier* 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.

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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.

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C2.2 the price schedule

Note : Tenderers are required to quote on all items listed in the NEC

Item	Material	Text	Unit of Measure	Price	Lead Time
1.	0148105	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 300 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: DUAL; DRAWING NO: N.45P 002N REV 1; REFERENCE NO: IG325; 25-12-03; RTD COUPLE; PROBE PYROMETRIC; L3 LENGTH 275MM, SENSITIVE ELEMENT IN NI-CR; CB 2 N COMPENSATION CABLE LENGTH 1=4.5M AND 1=2M IN ACCORDANCE; EQUIPPED WITH A MINATURE PLUG IN CONNECTOR FITTED WITH A PUSH PULL LOCK; HOT WELD INSULATED FROM THE VALVE; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
2.	0148106	THERMOCOUPLE: TYPE: RTD; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 375 MM; TEMPERATURE RANGE: -200 TO 850 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: COMPRESSION; JUNCTION: DUAL; SUPPL P/N: CB 2N; DRAWING NO: N.45 P 202 N REV 1; PROBE PYROMETRIC; BEARING TYPE 45 P 202 N; LENGTH L3; CONSTANTAN CU SENSITIVE ELEMENT; COMPENSATION CABLE LENGTH 4.5M AND 1=2M IN ACCORDANCE WITH; EQUIPPED WITH MINIATURE PLUG IN CONNECTOR WITH PUSH- PULL LOCK; HOT WELD INSULATED FROM THE VALVE; PUSH TYPE FITTING; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
3.	0148167	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 375 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; JUNCTION: GROUNDED; REFERENCE NO: E3756; N1CR-N1; ISOLATED; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
4.	0153400	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 8 MM; DESIGN LENGTH: 250 MM; TEMPERATURE RANGE: -270 TO 1372 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: 1/2 IN; JUNCTION: SINGLE GROUNDED; REFERENCE NO: K260	EA		
5.	0153727	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 16 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; ELEMENT T1/T2; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION NONE; WIRE SIZE 1MM	EA		
6.	0153728	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 17 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; ELEMENT T1/T2; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION NONE; WIRE SIZE 1MM	EA		

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7.	0153731	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 20 M; TEMPERATURE RANGE: 0-1100 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		
8.	0153737	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 28 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; MINERAL INSULATED; WITH 250MM TAILS; ITEM USED ON BOILER 2; CONNECTION NONE; WIRE SIZE 1MM	EA		
9.	0153739	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 26 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; CONNECTION NONE; WIRE SIZE 1MM	EA		
10	0153740	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 272 MM; TEMPERATURE RANGE: -270 TO 1372 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: 1/2 IN-BSP; JUNCTION: SIMPLEX, GROUNDED; HEAD: YES; REFERENCE NO: MK272SS6SSBB-G; 272; MINERAL INSULATED ELEMENT T1/T2; REDUCING TO 3MM FOR THE LAST 52MM; ASSEMBLY C/W BZA HEAD AND 150MM LONG EXTENSION SCREWED; HOT JUNCTION; WITH 150MM 1/2 IN SCREWED NIPPLE INSERT; SPRING LOADED; WIRE SIZE 1MM	EA		
11	0153741	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3.1 MM; DESIGN LENGTH: 8 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; WITH 8X4 PROTSEAL AND GF/GF/SS TAILS; CONNECTION THD; WIRE SIZE 1MM	EA		
12	0153744	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 4 MM; DESIGN LENGTH: 11 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION THD; WIRE SIZE 1MM	EA		
13	0153745	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 12 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING A 55MM FLEXIBLE TAILS; CONNECTION THD; WIRE SIZE 1MM	EA		
14	0153747	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 14 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING A 55MM FLEXIBLE TAIL; CONNECTION THD; WIRE SIZE 1MM	EA		
15	0153751	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 249 MM; TEMPERATURE RANGE: -270 - 1372 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: M15 X 1.5; JUNCTION: SIMPLEX, GROUNDED; HEAD: YES; MINERAL INSULATED; ELEMENT T1/T2; C/W BZA HEAD AND 150MM LONG SS EXTENSION; SCREWED M18X1.5; HOT JUNCTION; CONNECTION M18 HEX; WIRE SIZE 1MM	EA		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

16	0153752	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 4 MM; DESIGN LENGTH: 28 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: GROUNDED; MINERAL INSULATED; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION WELD; WIRE SIZE 1MM	EA		
17	0153759	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 370.5 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; REFERENCE NO: 76KUDRW; MINERAL INSULATED INNER AND MIDWALL TEMPERATURE T/C ELEMENT T1/T2; C/W BZA HEAD; TO HAVE A 150MM LG X 17.5MM OD SS EXTENSION; WITH OPEN END PLUGGED TO ALLOW A 3MM CLEARANCE HOLE FOR M1; INCORPORATING A SPRING LOADING SYSTEM TO ALLOW A 5MM MOVEMENT, TO HAVE 75MM FLEX TAILS, HEAD MATERIAL CW DIN ST/TERMINAL, WIRE SIZE 1MM	EA		
18	0153762	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 360.5 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; REFERENCE NO: 76KUDRW; C/W BZA HEAD, TO HAVE A 150MM LG X 17.5MM OD EXTENSION, WITH OPEN END PLUGGED TO ALLOW A 3MM CLEARANCE HOLE FOR M1; INCORPORATING A SPRING LOADING SYSTEM TO ALLOW A 5MM MOVEMENT; TO HAVE 75MM FLEX TAILS, HEAD MATERIAL CW DIN ST; TERMINAL BLOCK; WIRE SIZE 1MM	EA		
19	0153765	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.425 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; HEX COLLAR WELDED-ON; FITTED WITH SOCKET, GIVING 150MM STAND-OFF; COMPLETE WITH HEAD TYPE BZA; WITH M20X1.5 CABLE ENTRY; WIRE DIA 3.2MM; TUBE DIA 21.3MM SCH80, SHEATH TO BE FULLY CERAMIC COATED; FROM HEXACOLLAR UNTIL THE ROUNDED WELDED TIP; WIRE SIZE 10 SWG	EA		
20	0153766	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.575 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; WITH A HEXCOLLAR WELDED ON AND FITTED WITH SOCKET; GIVING 150MM STAND OFF C/W HEAD; TYPE BZA WITH M20X1.5 CABLE ENTRY; WIRE SIZE 10 SWG	EA		
21	0153768	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.525 M; TEMPERATURE RANGE: -270 TO 1372 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; HAVING A HEXCOLLAR WELDED ON AND FITTED WITH SOCKET WHICH WILL GIVE 150 MM STAND OFF; C/W HEAD; TYPE BZA WITH M20X1.5 CABLE ENTRY; WIRE SIZE 10 SWG	EA		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

22	0153769	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.4 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; WITH A HEXCOLLAR WELDED-ON; FITTED WITH SOCKET GIVING 150MM STAND OFF; COMPLETE WITH HEAD; TYPE BZA WITH M20X1.5 CABLE ENTRY; SHEATH TO BE FULLY CERAMIC COATED; FROM HEXACOLLAR UNTIL THE ROUNDED WELDED TIP; WIRE SIZE 10 SWG	EA		
23	0153770	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 1.435 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: 1/2 IN-BSP; JUNCTION: SIMPLEX, GROUNDED; HEAD: YES; MINERAL INSULATED ELEMENT T1/T2; SHEATH REDUCING TO 3MM FOR THE LAST 50MM, ASSEMBLY C/W BZA HEAD AND 150MM LONG SS EXTENSIONS SCREWED; WIRE SIZE 1MM	EA		
24	0153771	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 418 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 316; PROCESS CONNECTION: NONE; JUNCTION: UNGROUNDED; REFERENCE NO: MK410SSBG; MINERAL INSULATED; REDUCED TIP 65MM X 3MM DIA; C/W SPRING LOADED BLOCK 50MM DIA; WIKA NOT ACCEPTABLE; CONNECTION COMPRESSION; WIRE SIZE 0.5MM	EA		
25	0153772	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 297.7 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: BSP 3/4 IN; JUNCTION: GROUNDED; HEAD: YES; REFERENCE NO: MK298SS6SS3BG; C/W BZA HEAD AND 150MM LONG SS EXTENSION SCREWED 1/2 IN BSP; WITH 150MM 1/2 IN SCREWED NIPPLE INSERT SPRING LOADED; WIRE SIZE 1MM	EA		
26	0154141	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 6 MM; ELECTRICAL CONNECTION: MALE/FEMALE JACK; SUPPL P/N: DJT-K-7MM S 3M1-3000-PF PLUG (SP + 1P); 3M SPRING ENCASED M1; WITH BULLET SHAPED TIP; PLUG	EA		
27	0154153	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 510 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; C/W KS HEAD; AND ELECTRICAL COMPRESSION CABLE GLAND NO 0; REDUCED TIP 55 X 4.5 MM; TOTAL LENGTH 170 MM; STEM 115 X 6 MM; CONNECTION COMPRESSION	EA		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

28	0154154	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 5 MM; DESIGN LENGTH: 91 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: SCREW; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; ACCURACY: 0.05 PCT; NUMBER OF JUNCTIONS: 1; OEM P/N: 9136-002, OEM: GE STEAM POWER SERVICE; INSULATED FROM THE SHELL; TIP DIAMETER 2 MM; TIP LENGTH 7 MM; T/C TUBE THICKNESS 5 MM; TUBE DESIGN LENGTH INCLUDING TIP 91 MM; SPRING REST WELDED OR BRAZED TO THE T/C TUBE 21 MM FROM THE TIP OF THE T/C WITH A DIAMETER NOT TO EXCEED 7 MM; 40 MM CABLE PROTECTION AT THE END OF THE T/C EXCLUDING THE PROTECTION SPRING; BAYONET COUPLING SPRING LOADED; SPRING SHOULD NOT EXCEED A DIAMETER OF 7 MM; SPRING WIRE THICKNESS SHOULD BE 0.8 MM THICK; THE SPRING SHOULD HAVE 24 COILS; THE SPRING STROKE SHOULD BE 18 MM; THE T/C SHOULD HAVE A EXTENSION LEAD OF 8000 MM; THE EXTENSION LEAD SHOULD BE OF FLEXIBLE WIRE 1PR23AWG INSULATED WITH TEFLON INDIVIDUALLY AND TOGETHER AND BRANDED WITH A GALVANISED STEEL WIRE AND PROTECTED WITH AN OUTER SHEATH TEFLON COLOUR CODING TO DIN; UNGROUNDED CONNECTION; THE END OF THE EXTENSION LEAD SHOULD BE SEALED WITH AN OIL RESISTANT MATERIAL; THE EXTENSION LEAD SHOULD NOT EXCEED A DIAMETER OF 6 MM; TAIL WIRES SHOULD BE 100 MM IN LENGTH	EA		
29	0154226	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 1.75 MM; DESIGN LENGTH: 60 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; O/A LENGTH 85MM; LENGTH OF CABLE 490MM; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
30	154227	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 1.5 MM; DESIGN LENGTH: 30 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; O/A LENGTH 55MM; LENGTH OF CABLE 490MM; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
31	0154319	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 1.2 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 316; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; SUPPL P/N: KC0929E; REFERENCE NO: 94WS48910; USED ON THE FD AND ID FANS; WIRE SIZE 1MM	EA		
32	0154349	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 160 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; WITH 1M FLEX TUBING, CONNECTION COMPRESSION, WIRE SIZE 1MM	EA		
33	0154350	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 250 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; WITH 1M FLEX TUBING; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

34	0154412	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 230 MM; TEMPERATURE RANGE: 0-1000 DEG C; SHEATH MATERIAL: SS GR 310; PROCESS CONNECTION: 1/2 IN-NPT; MINERAL INSULATED; BELOW THREAD 1/2 IN X 1/2 IN BSP MALE X MALE S/S FITTING; WIRE SIZE 1.5 MM; LEADS 150	EA		
35	0154658	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 525 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: COMPRESSION; JUNCTION: DUPLEX; REFERENCE NO: E525-6; INSERT RTD; 2XNICR-NI; WIRE SIZE 1MM; STANDARD: DIN 43735-ST	EA		
36	0154661	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 5 MM; DESIGN LENGTH: 115 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: SCREW; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; ACCURACY: 0.05 PCT; TIP DIA 2 MM; TIP LENGTH 7 MM; T/C TUBE THICKNESS 5 MM; TUBE DESIGN LENGTH INCLUDING TIP 115 MM; SPRING REST WELDED OR BRAZE TO THE T/C TUBE 45 MM FROM THE TIP OF THE T/C WITH A DIAMETER NOT TO EXCEED 7 MM; 40 MM CABLE PROTECTION AT THE END OF THE T/C EXCLUDING THE PROTECTION SPRING, BAYONET COUPLING SPRING LOADED; SPRING SHOULD NOT EXCEED A DIAMETER OF 7 MM; SPRING WIRE THICKNESS SHOULD BE 0.8 MM THICK, THE SPRING SHOULD HAVE 24 COILS; THE SPRING STROKE SHOULD BE 18 MM; THE T/C SHOULD HAVE AN EXTENSION LEAD SHOULD BE OF FLEXIBLE WIRE 1PR23AWG INSULATED WITH TEFLON INDIVIDUALLY AND TOGETHER AND BRADED WITH A GALVANISED STEEL WIRE AND PROTECTED WITH AN OUTER SHEATH OF TEFLON COLOUR CODING DIN; UNGROUNDED CONNECTION; THE END OF THE EXTENSION LEAD SHOULD BE SEALED WITH AN OIL RESISTANT MATERIAL; THE EXTENSION LEAD SHOULD NOT EXCEED A DIAMETER OF 6 MM, TAIL WIRES SHOULD BE 100 MM IN LENGTH	EA		
37	0154662	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 5 MM; DESIGN LENGTH: 145 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: SCREW; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; ACCURACY: 0.05 PCT; NUMBER OF JUNCTIONS: 1; REFERENCE NO: AL-KB-20, 145+800 LG; INSULATED FROM THE SHELL; TIP DIAMETER 2 MM; TIP LENGTH 7 MM; T/C TUBE THICKNESS 5 MM; TUBE DESIGN LENGTH INCLUDING TIP 145 MM SPRING REST WELDED OR BRAZED TO THE T/C TUBE 75 MM FROM THE TIP OF THE T/C WITH A DIAMETER NOT TO EXCEED 7 MM; 40 MM CABLE PROTECTION AT THE END OF THE T/C EXCLUDING THE PROTECTION SPRING; BAYONET COUPLING SPRING LOADED; SPRING SHOULD NOT EXCEED DIAMETER OF 7 MM; SPRING WIRE THICKNESS SHOULD BE 0.8 MM THICK; THE SPRING SHOULD HAVE 24 COILS; THE SPRING STROKE SHOULD BE 18 MM; THE T/C SHOULD HAVE AN EXTENSION LEAD OF 8000 MM; THE EXTENSION LEAD SHOULD BE OF FLEXIBLE WIRE AND PROTECTED WITH AN OUTER SHEATH OF TEFLON COLOUR CODING TO DIN; UNGROUNDED CONNECTION; THE END OF THE EXTENSION LEAD SHOULD BE SEALED	EA		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

		WITH AN OIL RESISTANT MATERIAL; THE EXTENSION LEAD SHOULD NOT EXCEED A DIAMETER OF 6 MM; TAIL WIRES SHOULD BE 100 MM IN LENGTH			
38	0154663	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 300 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; SUPPL P/N: AQL-KB-3.2-300.8M; AL-NCF-3.2; LENGTH OF CABLE 8M; NICR-NI; INSULATED FROM SHELL; CONN POINT FOR TEMP MEASURING BEARING; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
39	0154664	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 350 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: COMPRESSION; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; OEM P/N: 9136-052, OEM: GE STEAM POWER SERVICE; SUPPL P/N: ALS-2KB-6.0-350-8M; SENSOR, LENGTH 350MM X 6MM, LENGTH OF CABLE 8M, DIA 6.4 300/8000, LG2X NI CR-NI, INSULATED FROM SHELL, CONN POINT FOR POINT FOR TEMP MEASURING BEARING, CONNECTION COMPRESSION, WIRE SIZE 1MM	EA		
40	0614321	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 65 MM; TEMPERATURE RANGE: 0-200 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: 1.5 MM; JUNCTION: WELD; NUMBER OF JUNCTIONS: 1; THE DIAMETER IS 1.5 MM WITH A LENGTH OF 65 MM THE DIAMETER THEN INCREASE TO 3.5 MM WITH A LENGTH OF 7.5 MM AND THEN INCREASE AGAIN TO A DIAMETER OF 9.5 MM FOR A LENGTH OF 30 MM WITH A 400 MM TAIL OPEN END; ANSI-MC96.1	EA		
41	0614322	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 30 MM; TEMPERATURE RANGE: 0-200 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: 1.5 MM; JUNCTION: WELD; NUMBER OF JUNCTIONS: 1; THE DIAMETER TIP IS 1.5 MM WITH A LENGTH OF 30 MM THE DIAMETER THEN INCREASES TO 3.5 MM WITH A LENGTH OF 7.5 MM AND THEN INCREASE AGAIN TO A DIAMETER OF 9.5 MM FOR LENGTH OF 30 MM WITH A 400 MM TAIL OPEN END; ANSI-MC96.1	EA		
42	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		
43	0153757	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 360 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; MINERAL INSULATED; INNER AND MIDWALL TEMPERATURE; ELEMENT T1/T2; C/W BZA HEAD; TO HAVE A 150MM LG X 17.5MM OD SS EXTENSION, WITH OPEN END PLUGGED TO ALLOW 3MM CLEARANCE HOLE FOR THE M1; INCORPORATING A SPRING LOADING SYSTEM TO ALLOW 5MM MOVEMENT, TO HAVE 75MM FLEX TAILS 1; HEAD MATERIAL C/W DIN ST/ TERMINAL BLOCK; WIRE SIZE 1MM	EA		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

44	154659	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 555 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: DUAL; SUPPL P/N: 259090; SA 11 TO 18/20; REFERENCE NO: E555-6; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
45	154660	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 655 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: DUAL; SUPPL P/N: SA 11T051; REFERENCE NO: 259082; E655-6; MEASURING INSERT; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA		
46	153756	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM; WIRE: 4; HEAD: YES; REFERENCE NO: 41MP45 0CSFFI3/4IN SS SP; 0 DEG C; SIZE DIA 6 MM; LG 450 MM; THERMOMETER SYSTEM WITH A 17.5 MM OD FIREBIRD BLUE OUTER; 3/4"BSP HEX COLLAR WELDED ON TO G/IMM AND C/W BZA HEAD(M20); SHEATH BELOW COLLAR COATED WITH TUNGSTEN CARBIDE TO A DEPTH OF 0.15 INCH; 300 MM WITH 15 MM SS44 6 TUBE; COATED	EA		
47	153758	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; REFERENCE NO: 41MP298SS6BSP; 0 DEG C; SIZE 6MM DIA X 297.7MM LG; ASSEMBLY C/W BZA AND 150MM LONG; CONTRACT OPL 11514	EA		
48	153972	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM AT 0 DEG C; SHEATH LENGTH: 135 MM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; SHEATH DIAMETER: 12 MM; REFERENCE NO: 1000HM	EA		
49	154609	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM AT 0 DEG C; SHEATH LENGTH: 155 MM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: BSP 3/4 IN; SHEATH DIAMETER: 6 MM; REFERENCE NO: MP-SS6BR; 5008744; THERMOMETER 50 MM LONG	EA		
50	154611	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM AT 0 DEG C; SHEATH LENGTH: 455 MM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; SHEATH DIAMETER: 6 MM; REFERENCE NO: MP-SS6BR; THERMOMETER; 350MM LONG; 50 FL	EA		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

PART 3: SCOPE OF WORK

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C3.1	<i>Purchaser's</i> Goods Information	3
C3.2	<i>Supplier's</i> Goods Information	5
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SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

C3.1: *PURCHASER'S* GOODS INFORMATION

1. Overview and purpose of the goods and services

Supply and delivery of Thermocouples and RTD's on an as and when required basis for a period of 5 years.

2. Specification and description of the goods

Item	Material	Descriptions	Base Unit of Measure
1.	0148105	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 300 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: DUAL; DRAWING NO: N.45P 002N REV 1; REFERENCE NO: IG325; 25-12-03; RTD COUPLE; PROBE PYROMETRIC; L3 LENGTH 275MM, SENSITIVE ELEMENT IN NI-CR; CB 2 N COMPENSATION CABLE LENGTH 1=4.5M AND 1=2M IN ACCORDANCE; EQUIPPED WITH A MINATURE PLUG IN CONNECTOR FITTED WITH A PUSH PULL LOCK; HOT WELD INSULATED FROM THE VALVE; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
2.	0148106	THERMOCOUPLE: TYPE: RTD; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 375 MM; TEMPERATURE RANGE: -200 TO 850 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: COMPRESSION; JUNCTION: DUAL; SUPPL P/N: CB 2N; DRAWING NO: N.45 P 202 N REV 1; PROBE PYROMETRIC; BEARING TYPE 45 P 202 N; LENGTH L3; CONSTANTAN CU SENSITIVE ELEMENT; COMPENSATION CABLE LENGTH 4.5M AND 1=2M IN ACCORDANCE WITH; EQUIPPED WITH MINIATURE PLUG IN CONNECTOR WITH PUSH- PULL LOCK; HOT WELD INSULATED FROM THE VALVE; PUSH TYPE FITTING; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
3.	0148167	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 375 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; JUNCTION: GROUNDED; REFERENCE NO: E3756; N1CR-N1; ISOLATED; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
4.	0153400	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 8 MM; DESIGN LENGTH: 250 MM; TEMPERATURE RANGE: -270 TO 1372 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: 1/2 IN; JUNCTION: SINGLE GROUNDED; REFERENCE NO: K260	EA
5.	0153727	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 16 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; ELEMENT T1/T2; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION NONE; WIRE SIZE 1MM	EA
6.	0153728	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 17 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; ELEMENT T1/T2; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION NONE; WIRE SIZE 1MM	EA

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

7.	0153731	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 20 M; TEMPERATURE RANGE: 0-1100 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
8.	0153737	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 28 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; MINERAL INSULATED; WITH 250MM TAILS; ITEM USED ON BOILER 2; CONNECTION NONE; WIRE SIZE 1MM	EA
9.	0153739	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 26 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; CONNECTION NONE; WIRE SIZE 1MM	EA
10	0153740	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 272 MM; TEMPERATURE RANGE: -270 TO 1372 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: 1/2 IN-BSP; JUNCTION: SIMPLEX, GROUNDED; HEAD: YES; REFERENCE NO: MK272SS6SSBB-G; 272; MINERAL INSULATED ELEMENT T1/T2; REDUCING TO 3MM FOR THE LAST 52MM; ASSEMBLY C/W BZA HEAD AND 150MM LONG EXTENSION SCREWED; HOT JUNCTION; WITH 150MM 1/2 IN SCREWED NIPPLE INSERT; SPRING LOADED; WIRE SIZE 1MM	EA
11	0153741	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3.1 MM; DESIGN LENGTH: 8 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; WITH 8X4 PROTSEAL AND GF/GF/SS TAILS; CONNECTION THD; WIRE SIZE 1MM	EA
12	0153744	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 4 MM; DESIGN LENGTH: 11 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION THD; WIRE SIZE 1MM	EA
13	0153745	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 12 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING A 55MM FLEXIBLE TAILS; CONNECTION THD; WIRE SIZE 1MM	EA
14	0153747	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 14 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, GROUNDED; MINERAL INSULATED; INCLUDING A 55MM FLEXIBLE TAIL; CONNECTION THD; WIRE SIZE 1MM	EA
15	0153751	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 249 MM; TEMPERATURE RANGE: -270 - 1372 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: M15 X 1.5; JUNCTION: SIMPLEX, GROUNDED; HEAD: YES; MINERAL INSULATED; ELEMENT T1/T2; C/W BZA HEAD AND 150MM LONG SS EXTENSION; SCREWED M18X1.5; HOT JUNCTION; CONNECTION M18 HEX; WIRE SIZE 1MM	EA
16	0153752	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 4 MM; DESIGN LENGTH: 28 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: NONE; JUNCTION: GROUNDED; MINERAL INSULATED; INCLUDING 55MM FLEXIBLE TAILS; CONNECTION WELD; WIRE SIZE 1MM	EA

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

17	0153759	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 370.5 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; REFERENCE NO: 76KUDRW; MINERAL INSULATED INNER AND MIDWALL TEMPERATURE T/C ELEMENT T1/T2; C/W BZA HEAD; TO HAVE A 150MM LG X 17.5MM OD SS EXTENSION; WITH OPEN END PLUGGED TO ALLOW A 3MM CLEARANCE HOLE FOR M1; INCORPORATING A SPRING LOADING SYSTEM TO ALLOW A 5MM MOVEMENT, TO HAVE 75MM FLEX TAILS, HEAD MATERIAL CW DIN ST/TERMINAL, WIRE SIZE 1MM	EA
18	0153762	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 360.5 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; REFERENCE NO: 76KUDRW; C/W BZA HEAD, TO HAVE A 150MM LG X 17.5MM OD EXTENSION, WITH OPEN END PLUGGED TO ALLOW A 3MM CLEARANCE HOLE FOR M1; INCORPORATING A SPRING LOADING SYSTEM TO ALLOW A 5MM MOVEMENT; TO HAVE 75MM FLEX TAILS, HEAD MATERIAL CW DIN ST; TERMINAL BLOCK; WIRE SIZE 1MM	EA
19	0153765	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.425 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; HEX COLLAR WELDED-ON; FITTED WITH SOCKET, GIVING 150MM STAND-OFF; COMPLETE WITH HEAD TYPE BZA; WITH M20X1.5 CABLE ENTRY; WIRE DIA 3.2MM; TUBE DIA 21.3MM SCH80, SHEATH TO BE FULLY CERAMIC COATED; FROM HEXACOLLAR UNTIL THE ROUNDED WELDED TIP; WIRE SIZE 10 SWG	EA
20	0153766	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.575 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; WITH A HEXCOLLAR WELDED ON AND FITTED WITH SOCKET; GIVING 150MM STAND OFF C/W HEAD; TYPE BZA WITH M20X1.5 CABLE ENTRY; WIRE SIZE 10 SWG	EA
21	0153768	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.525 M; TEMPERATURE RANGE: -270 TO 1372 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; HAVING A HEXCOLLAR WELDED ON AND FITTED WITH SOCKET WHICH WILL GIVE 150 MM STAND OFF; C/W HEAD; TYPE BZA WITH M20X1.5 CABLE ENTRY; WIRE SIZE 10 SWG	EA
22	0153769	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 25.4 MM; DESIGN LENGTH: 1.4 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: MS; PROCESS CONNECTION: BSP 1 IN; JUNCTION: SINGLE; HEAD: YES; ELEMENT T1/T2; WITH A HEXCOLLAR WELDED-ON; FITTED WITH SOCKET GIVING 150MM STAND OFF; COMPLETE WITH HEAD; TYPE BZA WITH M20X1.5 CABLE ENTRY; SHEATH TO BE FULLY CERAMIC COATED; FROM HEXACOLLAR UNTIL THE ROUNDED WELDED TIP; WIRE SIZE 10 SWG	EA
23	0153770	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 1.435 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: 1/2 IN-BSP; JUNCTION: SIMPLEX, GROUNDED; HEAD: YES; MINERAL INSULATED ELEMENT T1/T2; SHEATH REDUCING TO 3MM FOR THE LAST 50MM, ASSEMBLY C/W BZA HEAD AND 150MM LONG SS EXTENSIONS SCREWED; WIRE SIZE 1MM	EA

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

24	0153771	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 418 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 316; PROCESS CONNECTION: NONE; JUNCTION: UNGROUNDED; REFERENCE NO: MK410SSBG; MINERAL INSULATED; REDUCED TIP 65MM X 3MM DIA; C/W SPRING LOADED BLOCK 50MM DIA; WIKA NOT ACCEPTABLE; CONNECTION COMPRESSION; WIRE SIZE 0.5MM	EA
25	0153772	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 297.7 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 18/8/1; PROCESS CONNECTION: BSP 3/4 IN; JUNCTION: GROUNDED; HEAD: YES; REFERENCE NO: MK298SS6SS3BG; C/W BZA HEAD AND 150MM LONG SS EXTENSION SCREWED 1/2 IN BSP; WITH 150MM 1/2 IN SCREWED NIPPLE INSERT SPRING LOADED; WIRE SIZE 1MM	EA
26	0154141	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 6 MM; ELECTRICAL CONNECTION: MALE/FEMALE JACK; SUPPL P/N: DJT-K-7MM S 3M1-3000-PF PLUG (SP + 1P); 3M SPRING ENCASED M1; WITH BULLET SHAPED TIP; PLUG	EA
27	0154153	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 510 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; C/W KS HEAD; AND ELECTRICAL COMPRESSION CABLE GLAND NO 0; REDUCED TIP 55 X 4.5 MM; TOTAL LENGTH 170 MM; STEM 115 X 6 MM; CONNECTION COMPRESSION	EA
28	0154154	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 5 MM; DESIGN LENGTH: 91 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: SCREW; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; ACCURACY: 0.05 PCT; NUMBER OF JUNCTIONS: 1; OEM P/N: 9136-002, OEM: GE STEAM POWER SERVICE; INSULATED FROM THE SHELL; TIP DIAMETER 2 MM; TIP LENGTH 7 MM; T/C TUBE THICKNESS 5 MM; TUBE DESIGN LENGTH INCLUDING TIP 91 MM; SPRING REST WELDED OR BRAZED TO THE T/C TUBE 21 MM FROM THE TIP OF THE T/C WITH A DIAMETER NOT TO EXCEED 7 MM; 40 MM CABLE PROTECTION AT THE END OF THE T/C EXCLUDING THE PROTECTION SPRING; BAYONET COUPLING SPRING LOADED; SPRING SHOULD NOT EXCEED A DIAMETER OF 7 MM; SPRING WIRE THICKNESS SHOULD BE 0.8 MM THICK; THE SPRING SHOULD HAVE 24 COILS; THE SPRING STROKE SHOULD BE 18 MM; THE T/C SHOULD HAVE A EXTENSION LEAD OF 8000 MM; THE EXTENSION LEAD SHOULD BE OF FLEXIBLE WIRE 1PR23AWG INSULATED WITH TEFLON INDIVIDUALLY AND TOGETHER AND BRANDED WITH A GALVANISED STEEL WIRE AND PROTECTED WITH AN OUTER SHEATH TEFLON COLOUR CODING TO DIN; UNGROUNDED CONNECTION; THE END OF THE EXTENSION LEAD SHOULD BE SEALED WITH AN OIL RESISTANT MATERIAL; THE EXTENSION LEAD SHOULD NOT EXCEED A DIAMETER OF 6 MM; TAIL WIRES SHOULD BE 100 MM IN LENGTH	EA
29	0154226	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 1.75 MM; DESIGN LENGTH: 60 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; O/A LENGTH 85MM; LENGTH OF CABLE 490MM; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
30	154227	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 1.5 MM; DESIGN LENGTH: 30 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; O/A LENGTH 55MM; LENGTH OF CABLE 490MM; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

31	0154319	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 1.2 M; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS GR 316; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; SUPPL P/N: KC0929E; REFERENCE NO: 94WS48910; USED ON THE FD AND ID FANS; WIRE SIZE 1MM	EA
32	0154349	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 160 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; WITH 1M FLEX TUBING, CONNECTION COMPRESSION, WIRE SIZE 1MM	EA
33	0154350	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 250 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SINGLE; WITH 1M FLEX TUBING; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
34	0154412	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 230 MM; TEMPERATURE RANGE: 0-1000 DEG C; SHEATH MATERIAL: SS GR 310; PROCESS CONNECTION: 1/2 IN-NPT; MINERAL INSULATED; BELOW THREAD 1/2 IN X 1/2 IN BSP MALE X MALE S/S FITTING; WIRE SIZE 1.5 MM; LEADS 150	EA
35	0154658	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 525 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: COMPRESSION; JUNCTION: DUPLEX; REFERENCE NO: E525-6; INSERT RTD; 2XNICR-NI; WIRE SIZE 1MM; STANDARD: DIN 43735-ST	EA
36	0154661	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 5 MM; DESIGN LENGTH: 115 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: SCREW; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; ACCURACY: 0.05 PCT; TIP DIA 2 MM; TIP LENGTH 7 MM; T/C TUBE THICKNESS 5 MM; TUBE DESIGN LENGTH INCLUDING TIP 115 MM; SPRING REST WELDED OR BRAZE TO THE T/C TUBE 45 MM FROM THE TIP OF THE T/C WITH A DIAMETER NOT TO EXCEED 7 MM; 40 MM CABLE PROTECTION AT THE END OF THE T/C EXCLUDING THE PROTECTION SPRING, BAYONET COUPLING SPRING LOADED; SPRING SHOULD NOT EXCEED A DIAMETER OF 7 MM; SPRING WIRE THICKNESS SHOULD BE 0.8 MM THICK, THE SPRING SHOULD HAVE 24 COILS; THE SPRING STROKE SHOULD BE 18 MM; THE T/C SHOULD HAVE AN EXTENSION LEAD SHOULD BE OF FLEXIBLE WIRE 1PR23AWG INSULATED WITH TEFLON INDIVIDUALLY AND TOGETHER AND BRADED WITH A GALVANISED STEEL WIRE AND PROTECTED WITH AN OUTER SHEATH OF TEFLON COLOUR CODING DIN; UNGROUNDED CONNECTION; THE END OF THE EXTENSION LEAD SHOULD BE SEALED WITH AN OIL RESISTANT MATERIAL; THE EXTENSION LEAD SHOULD NOT EXCEED A DIAMETER OF 6 MM, TAIL WIRES SHOULD BE 100 MM IN LENGTH	EA

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

37	0154662	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 5 MM; DESIGN LENGTH: 145 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: SCREW; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; ACCURACY: 0.05 PCT; NUMBER OF JUNCTIONS: 1; REFERENCE NO: AL-KB-20, 145+800 LG; INSULATED FROM THE SHELL; TIP DIAMETER 2 MM; TIP LENGTH 7 MM; T/C TUBE THICKNESS 5 MM; TUBE DESIGN LENGTH INCLUDING TIP 145 MM SPRING REST WELDED OR BRAZED TO THE T/C TUBE 75 MM FROM THE TIP OF THE T/C WITH A DIAMETER NOT TO EXCEED 7 MM; 40 MM CABLE PROTECTION AT THE END OF THE T/C EXCLUDING THE PROTECTION SPRING; BAYONET COUPLING SPRING LOADED; SPRING SHOULD NOT EXCEED DIAMETER OF 7 MM; SPRING WIRE THICKNESS SHOULD BE 0.8 MM THICK; THE SPRING SHOULD HAVE 24 COILS; THE SPRING STROKE SHOULD BE 18 MM; THE T/C SHOULD HAVE AN EXTENSION LEAD OF 8000 MM; THE EXTENSION LEAD SHOULD BE OF FLEXIBLE WIRE AND PROTECTED WITH AN OUTER SHEATH OF TEFLON COLOUR CODING TO DIN; UNGROUNDED CONNECTION; THE END OF THE EXTENSION LEAD SHOULD BE SEALED WITH AN OIL RESISTANT MATERIAL; THE EXTENSION LEAD SHOULD NOT EXCEED A DIAMETER OF 6 MM; TAIL WIRES SHOULD BE 100 MM IN LENGTH	EA
38	0154663	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 300 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; SUPPL P/N: AQL-KB-3.2-300.8M; AL-NCF-3.2; LENGTH OF CABLE 8M; NICR-NI; INSULATED FROM SHELL; CONN POINT FOR TEMP MEASURING BEARING; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
39	0154664	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 350 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: COMPRESSION; JUNCTION: SIMPLEX, UNGROUNDED; WIRES: 2; OEM P/N: 9136-052, OEM: GE STEAM POWER SERVICE; SUPPL P/N: ALS-2KB-6.0-350-8M; SENSOR, LENGTH 350MM X 6MM, LENGTH OF CABLE 8M, DIA 6.4 300/8000, LG2X NI CR-NI, INSULATED FROM SHELL, CONN POINT FOR POINT FOR TEMP MEASURING BEARING, CONNECTION COMPRESSION, WIRE SIZE 1MM	EA
40	0614321	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 65 MM; TEMPERATURE RANGE: 0-200 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: 1.5 MM; JUNCTION: WELD; NUMBER OF JUNCTIONS: 1; THE DIAMETER IS 1.5 MM WITH A LENGTH OF 65 MM THE DIAMETER THEN INCREASE TO 3.5 MM WITH A LENGTH OF 7.5 MM AND THEN INCREASE AGAIN TO A DIAMETER OF 9.5 MM FOR A LENGTH OF 30 MM WITH A 400 MM TAIL OPEN END; ANSI-MC96.1	EA
41	0614322	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 30 MM; TEMPERATURE RANGE: 0-200 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: 1.5 MM; JUNCTION: WELD; NUMBER OF JUNCTIONS: 1; THE DIAMETER TIP IS 1.5 MM WITH A LENGTH OF 30 MM THE DIAMETER THEN INCREASES TO 3.5 MM WITH A LENGTH OF 7.5 MM AND THEN INCREASE AGAIN TO A DIAMETER OF 9.5 MM FOR LENGTH OF 30 MM WITH A 400 MM TAIL OPEN END; ANSI-MC96.1	EA
42	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

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

43	0153757	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 3 MM; DESIGN LENGTH: 360 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: SS 25/20; PROCESS CONNECTION: 3/8 IN-BSP; JUNCTION: SINGLE; HEAD: YES; MINERAL INSULATED; INNER AND MIDWALL TEMPERATURE; ELEMENT T1/T2; C/W BZA HEAD; TO HAVE A 150MM LG X 17.5MM OD SS EXTENSION, WITH OPEN END PLUGGED TO ALLOW 3MM CLEARANCE HOLE FOR THE M1; INCORPORATING A SPRING LOADING SYSTEM TO ALLOW 5MM MOVEMENT, TO HAVE 75MM FLEX TAILS 1; HEAD MATERIAL C/W DIN ST/ TERMINAL BLOCK; WIRE SIZE 1MM	EA
44	154659	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 555 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: DUAL; SUPPL P/N: 259090; SA 11 TO 18/20; REFERENCE NO: E555-6; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
45	154660	THERMOCOUPLE: TYPE: K; SHEATH DIAMETER: 6 MM; DESIGN LENGTH: 655 MM; TEMPERATURE RANGE: 0-1100 DEG C; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: NONE; JUNCTION: DUAL; SUPPL P/N: SA 11T051; REFERENCE NO: 259082; E655-6; MEASURING INSERT; CONNECTION COMPRESSION; WIRE SIZE 1MM	EA
46	153756	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM; WIRE: 4; HEAD: YES; REFERENCE NO: 41MP45 0CSFFI3/4IN SS SP; 0 DEG C; SIZE DIA 6 MM; LG 450 MM; THERMOMETER SYSTEM WITH A 17.5 MM OD FIREBIRD BLUE OUTER; 3/4"BSP HEX COLLAR WELDED ON TO G/IMM AND C/W BZA HEAD(M20); SHEATH BELOW COLLAR COATED WITH TUNGSTEN CARBIDE TO A DEPTH OF 0.15 INCH; 300 MM WITH 15 MM SS44 6 TUBE; COATED	EA
47	153758	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; HEAD: YES; REFERENCE NO: 41MP298SS6BSP; 0 DEG C; SIZE 6MM DIA X 297.7MM LG; ASSEMBLY C/W BZA AND 150MM LONG; CONTRACT OPL 11514	EA
48	153972	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM AT 0 DEG C; SHEATH LENGTH: 135 MM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; SHEATH DIAMETER: 12 MM; REFERENCE NO: 1000HM	EA
49	154609	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM AT 0 DEG C; SHEATH LENGTH: 155 MM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; PROCESS CONNECTION: BSP 3/4 IN; SHEATH DIAMETER: 6 MM; REFERENCE NO: MP-SS6BR; 5008744; THERMOMETER 50 MM LONG	EA
50	154611	DETECTOR, RESISTANCE TEMPERATURE: TYPE: RTD-PT100; TEMPERATURE RATING: 600 DEG C; RESISTANCE: 100 OHM AT 0 DEG C; SHEATH LENGTH: 455 MM; WIRE: 4; SHEATH MATERIAL: STAINLESS STEEL; SHEATH DIAMETER: 6 MM; REFERENCE NO: MP-SS6BR; THERMOMETER; 350MM LONG; 50 FL	EA

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

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

2.4 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.

2.5 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.

2.6 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:

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

- a) The Thermocouples and RTD's and components will be supplied to the "goods received" section of the Lethabo main store where they will be received by the material management section. The Thermocouples and RTD's 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 Thermocouples and RTD's 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 Goods are to 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 goods.
- b) This includes damage due to moisture ingress, corrosion, vibration from the power station etc.
- c) Where lifting gear is utilised 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) The different pump types are to be packaged separately in such a way that each type can be stored separately.
- g) Packaging and labelling of Thermocouples and RTD's should ensure that the Thermocouples and RTD's can be identified without opening the packaging.
- h) 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.
- i) 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 of Thermocouples and RTD's

5. Constraints on how the *Supplier* Provides the Goods

5.1 Programming constraints

The *Supplier* to provide delivery plan (as per clause 31.2) of the *goods* after receiving the purchase order.

5.2 Work to be done by the Delivery Date

No incorrect, damaged or faulty Thermocouples and RTD's will be accepted. All Thermocouples and RTD's will be inspected before and after offloading. Where testing is required, the test will be done during delivery. All required manuals and test certificates must be available during delivery.

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

5.3 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

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

The *Purchaser* will provide the overhead cranes and forklift during offloading of the goods. The *Purchaser* will also provide the operator for both machines.

5.5 Management meetings

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.

5.6 Documentation control

Contractual communication can be done through emails. For urgent request, both Parties can use telephone as form of communication, however it should be confirmed by email.

5.7 Health and safety risk management

OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS

Contractual requirements mean the service provider will submit the tender returnable during the tender close-out. The evaluation will take place once the mandatory and functionality evaluation have been completed. The service provider will be given only ONE opportunity to submit the outstanding documents within 7 working days. Failure to submit the outstanding documents within the stipulated time; may result in the tenderer being regarded as non-responsive and ineligible for contract award.

These OHS requirements will form part of the procurement process and must be complied with prior to signing the contract (Note: these requirements are applicable to the tender phase only). The service provider shall comply with the OHS Safety file requirements which will be issued to the successful bidder, and no work may commence until the Safety file is approved by the Contract custodian together with the OHS professional of the respective site.

5.8 Environmental constraints and management

Environment requirements:

- Contractor to be familiarized with Lethabo waste management procedure.
- Contractor to be familiarised with the 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

5.9 Quality

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

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.

RISK MITIGATIONS

Risks	Mitigation Factors	Level
Time: Low Service due to: Failure to complete the works as per agreed task order. Low Service by the contractor.	Strict Low Service damages to be imposed on the delayed key date as per the contract data and in line with the approved schedule at 2% per day up to a maximum of 15% per task order. This also applies to all defects notifications (NCRs) that will be issued during execution.	Medium
Safety Non- compliance to all legal requirements	○ SHE File will be compiled and presented to Eskom - Lethabo PowerStation (Safety Department) by the successful bidder (Contractor) for approval prior to the commencement of the job. ○ Firm safety plans that shall be approved by the Employer SHE Officer will be put in-place and shall be implemented during project execution. ○ Task risk assessments will be done and followed by the Contractor. Over and above that, the Employer will conduct random spot audits such as SMAT. ○ PPE and Vehicle inspections to be conducted on daily basis. ○ Contractor to be familiarised with Eskom's Health & safety policy. ○ Compliance to the SHE requirements for the Eskom commercial process. ○ Employer's project manager to also ensure that all required permits are issued to the contractor's authorised supervisor on daily basis. (Both the contractor and Eskom). ○ The contractor's personnel shall undergo PSR training to be qualified as Authorised supervisor to carry out the works under	High

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

	the permit	
Safety Requirements	The following will form part of the tender evaluation criteria and must be complied with: ○ Acknowledgement of Eskom's SHE rules, and requirements form (Annexure B) signed and submitted by the tenderer ○ National driver's license (applicable to drivers) ○ Valid Letter of Good Standing (COIDA or equivalent) ○ The OHS Act 37(2) agreement which will be signed with the contract ○ Subcontractor management – Management commitment to ensure that the delivery company complies with Eskom and legal requirements as amended (formal letter on the company letter head), The sub-contractor shall comply with the following: ○ National driver's license ○ OHS Act 37(2) agreement signed by the CE/MD ○ Valid letter of good standing. ○ The client to evaluate and approve the contractor's safety file after the contract has been awarded. ○ Contractor safety plans that shall be signed and approved by the responsible managers and their safety practitioners. Ensure what is listed on the file shall be implemented during project execution.	
Quality: Substandard workmanship or defect on critical equipment which result in re-work/delays. Lack of Inspections & quality records	The Contracts Manager to ensure that service provider conform to QM58, ISO 9001 and other Eskom holdings SOC Limited's standards and specifications. Failure to adhere will result in NCR being issued to the service provider. Lost time/rework costs/production losses to be recovered from service provider as per stipulated clause and contractor executing the rework. Performance management shall be measured using KPI between Employer and service provider. Assessment shall be conducted timeously . The service shall be required to execute SOW with approved QCPs by Eskom System engineer, quality control and project manager. The service provider shall conduct first line inspection and provide	Medium

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

	inspection report	
Quality Requirements	Quality Requirements – Category 4 SECTION A: Quality Management System Requirements ISO 9001 A.1 - QMS Manual or a document that defines and describes the QMS and its scope or Quality Method statement. A.2 - Quality Policy Approved by top management. A.3 - Quality Objectives Approved by top management. SECTION B: Evidence of QMS in operation (Tender Quality Requirements -Ref 240-105658000) B.1 - Documented information for defined roles, responsibilities and authorities - Organization chart and Responsibility matrix (must include but not limited to quality management function/role) (Clause 5.3 of ISO 9001:2015) " B.2 - Documented information for Control of Externally Provided Processes, Products and Services - Must include criteria for evaluation, selection, monitoring of performance, and re-evaluation of external providers (Clause 8.4 of ISO 9001:2015) B.3 - Documented information as proof of compliance of all materials and equipment to be used on the project to Eskom and other national/international standards Datasheets for final products proving compliance B.4 - Documented information for Preservation of goods (identification, handling, contamination control, packaging, storage, transportation, and protection). B.5 - Documented information for Project related risks and opportunities (Risk register and action plan or template) - NB: Please do not submit a risk assessment for OHS." SECTION E User defined additional Requirements & miscellaneous (Ref 240-105658000) E.1 - Form A is completed and signed.	Medium
Environment: Illegal disposal of waste. Soil and water pollution due to	○ Contractor to be familiarized with Lethabo SHEQ Policy ○ Contractor to be ISO14001:2015 compliant ○ Contactor shall familiarise him/herself with the Environmental procedures related to the activity	Low

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

incorrect storage of waste.	All waste generated during execution of work, must be disposed through proper pathways.	
Water wastage due to excessive washing and no dry-cleaning methods.	Contractor shall report all incidents or risks whilst on the job to the Eskom Project leader who will inform the environmental department. Contractor shall comply to the following environmental procedures:	
	○ LBE23003 Environmental non-conformance; investigation and reporting ○ LBE22005 Environmental spill management procedure ○ LBE22004 Environmental waste management procedure	

5.10 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 which is 4740101508.
- 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

6. Procurement

6.1 Other requirements related to procurement.

SUPPLIER DEVELOPMENT LOCALISATION & INDUSTRIALISATION (SDLI)

SDLI Obligations

Note: The undertakings shall be sourced from previously disadvantaged Communities around Sedibeng and Fezile Dabi District Municipalities.

1. Transformation – BBBEE Improvement or Retention Plan

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

Transformation remains an area of focus, where Eskom continuously strives to align itself with national transformation imperatives to unlock growth, drive industrialization, create employment and contribute to skills development.

Eskom encourages its suppliers to constantly strive to improve their B-BBEE rating. Whereas Tenderer/s will be allocated points in terms of a preference point system based on specific goals, Eskom also requests that tenderer/s submits their B-BBEE improvement or retention plan within 30 days of signing the contract. Tenderer/s are therefore requested to indicate the extent to which they will maintain (only if the respondent is a Level 1) or may improve/maintain their B-BBEE status over the contract period if their B-BBEE status is level 2 or 3. Tenderer/s with a B-BBEE status level 4 at the time of contract award, shall migrate and achieve as a non-negotiable a milestone of B-BBEE Level 3 by the end of the first year of the contract and thereafter improve their B-BBEE status level or migrate by one level higher.

Tenderer/s with a B-BBEE recognition status of Level 5 to Level 8 or non-compliant at the time of contract award, shall migrate and achieve as a non-negotiable a milestone of Level 4 by the end of the first year of the contract and thereafter improve at least one B-BBEE Level higher of each year from the second year of the contract. Tenderer/s are requested to submit their B-BBEE Improvement Plan as an essential document within 30 days of signing the contract.

NB: A valid B-BBEE certificate or Sworn Affidavit is a condition for contract award, if your company's annual Total Revenue is R10 Million or less you qualify as an Exempted Micro Enterprise therefore you can submit Sworn Affidavit. If your annual Total Revenue is R50 Million or less, you qualify as Qualifying Small Enterprise and must comply with all of the elements of QSE score card relevant to your sector unless an entity is at least 51% Black owned you are required to obtain a Sworn affidavit. If your Annual Total Revenue is above R50m you need to submit a Valid B-BBEE certificate

2. Local Procurement Content

"Local Procurement Content" refers to value added in South Africa by South African resources. Where a single contract involves a combination of local and imported goods and/or services, the tender response must be separated into its components as per the Price Schedule included with the tender documents. Local procurement content is total spending minus the imported component.

Tenderers are required to submit their proposals in the table below.

Local Procurement Content	Eskom target	Tenderer Proposal
	100%	

3. Procurement spends on entities with a minimum 51% black ownership

Procurement spends on entities with a minimum 51% black ownership

The winning tenderer is encouraged to procure/spend on designated groups on the following paid invoices for both:

- the indirect expenses (e.g., overheads) on goods and services supplied to the contractor/supplier by designated groups; and
- direct spend on goods and services supplied by the subcontractors for the execution of the scope of work.

Activities, as a proportion of the local procurement content, which may be subcontracted to designated black owned enterprises must be submitted in a table below

Procurement from Designated Group	Eskom Target	Tenderer Proposal
Black Owned	4.0%	
Black Women Owned	3.0%	
Black Youth Owned	2.0%	

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Black Persons with Disability	1.0%	
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Jobs. Tenderers are required to submit proposals for the type and number of jobs that will be created and retained in South Africa as a direct result of being awarded a contract.

Type of Jobs to be created	Number of Jobs to be created

Type of Jobs to be retained	Number of Jobs to be retained

SDL&I Penalty and Performance Security

Eskom will apply a penalty of **1%** of the Contract Value for failure to meet SDL&I obligations. For the duration of the contract, Eskom will retain **1%** of every invoice (excluding VAT) as security for the fulfilment of all SDL&I Obligations. The retained amounts shall only be released to the Contractor upon fulfilment of all SDL&I obligations by the contractor.

Reporting and Monitoring

- The suppliers shall on a quarterly basis submit a report to Eskom in accordance with Data Collection Template on their compliance with the SDL&I obligations described above.
- Eskom shall review the SDL&I reports submitted by the suppliers within 30 (thirty) days of receipt of the reports and notify the suppliers in writing if their SDL&I obligations have not been met.
- Upon notification by Eskom that the suppliers have not met their SDL&I obligations, the suppliers shall be required to implement corrective measures to meet those SDL&I obligations before the commencement of the following report, failing which Retention clauses shall be invoked.
- Every contract shall be accompanied by the SDL&I Implementation Schedule, which must be completed by the suppliers and returned to SDL&I representative for acceptance 28 days after contract award. This will be used as a reference document for monitoring, measuring and reporting on the supplier's progress in delivering on their stated SDL&I commitments

General Information on Validity of Sworn Affidavits

The following must be considered when it comes to validity of Affidavits.

Tenderers submitting B-BBEE Sworn Affidavits must ensure that the affidavits meet the following key pointers to ensure their validity:

- Name/s of deponent as they appear in the identity document and the identity number.
- Designation of the deponent as the **director**, **owner** or **member** must be indicated in order to know that person is duly authorised to depose of an affidavit. **(Mark the applicable option).**
- Name of enterprise as per enterprise registration documents issued by the CIPC, where applicable, and enterprise business address.
- Percentage of black ownership, black female ownership and designated group. In the case of

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specialised enterprises as per Statement 004, the percentage of black beneficiaries must be reflected. **(No blank spaces to be left).**

- Indicate total revenue for the year under review and whether it is based on **audited financial statements** or **management account**. **(Mark the applicable option).**
- Financial year end as per the **enterprise's registration documents**, which was used to determine the total revenue. **(Financial year end to be stipulated by day/month/year).**
- B-BBEE Status level. An enterprise can only have one status level. **(Tick applicable level)**
- Empowering supplier status must be indicated. For QSEs, the deponent must select the basis for the empowering supplier status.
- Date deponent signed and date of Commissioner of Oath must be the same. **(The sworn affidavit must be signed in the presence of the Commissioner of Oath. Furthermore, the Commissioner must also sign and stamp)**
- Commissioner of Oath cannot be an employee or ex officio of the enterprise because, a person cannot by law, commission a sworn affidavit in which they have an interest.

List of drawings

Drawings issued by the *Purchaser*

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

Drawing number	Revision	Title
N/A		

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

C4 Site Information

4.4.1 Health, Safety and Environmental Requirements

Requirements of OSHACT no.5 of 1993 must be adhered to at all times during the site installation work. Waste material should be disposed off using the Lethabo waste procedure. Construction and regulation requirements must be adhered to at all times. The installation contractor SHE coordinator must compile a SHE file that will be audited by Safety Risk Management before site work commences. Prior to commencement of site installation work, the contractor

- The *Supplier* and his subcontractors ensure at all times compliance with safety regulations imposed by any Act of Parliament, ordinance or any regulation or by-law of any local or statutory authority.

Occupational Health and Safety Act (Act of 1993-Section 37)

- The *Supplier* shall comply with:
 - a) The Occupational Health and Safety Act, 1993, and all Regulations made there under;
 - b) All Eskom Safety and Operating Procedures listed.
 - c) Lethabo site procedure LBA 00055 Rev 2.
- The *Supplier* acknowledges that it is fully aware of the requirements of all the above and undertakes to employ only people who have been duly authorized in terms thereof and who have received sufficient training to ensure that they can comply therewith.
- The *Supplier* undertakes not to do, or not to allow anything to be done which will contravene any of the provisions of the Act, Regulations or Safety and Operating Procedures.
- The *Supplier* shall appoint a person who will liaise with the Eskom Safety Officer responsible for the premises relevant to this contract. The person so appointed shall, on request:
- Eskom may, at any stage during the currency of this agreement, be entitled to:
 - a) do safety audits at the *Supplier's* premises, its work-places and on its employees;
 - b) refuse any employee, sub-contractor or agent of the *Supplier* access to its premises if such person has been found to commit any unlawful act or any unsafe working practice or is found to be not authorised or qualified in terms of the Act;
 - c) issue the *Supplier* with a work stop order or a compliance order should Eskom become aware of any unsafe working procedure or conditions or any non-compliance with the Act, Regulations and Procedures referred to in the above by the *Supplier* or any of its employees, sub-contractors or agents.
- No extension of time will be allowed as a result of any action taken by Eskom in terms of the above and the *Supplier* shall have no claim against Eskom as a result thereof. Furthermore, no amendments to the Act or Regulations or reasonable amendment to Eskom's Safety and

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

Operating Procedures will entitle the *Supplier* to claim any additional costs incurred in complying therewith from Eskom.

Safety 4.4.4 Local Safety Procedures

The *Supplier* adheres to all local procedures. A list of local procedures is available from the *Employer* on request.

4.4.5 Incidents / Accidents

- Incidents and accidents must be reported and to the *Employer* within 24 hours.
- First aid must be made available by the *Supplier*. Alternatively use can be made of the Lethabo medical centre at a fee. The availability of the *Supplier's* own first aid does not relieve the *Supplier* of his obligation to report and investigate the incident.

4.4.6 Fire Prevention

- Fire prevention and protection requirements to which Contractors must comply, are detailed in LBA 00030.

4.4.7 Protective Equipment and Clothing

- The *Supplier* supplies his own personal protective equipment to personnel with logos on as necessary.
- The *Supplier* is also responsible to inspect and maintain such equipment as required in terms of the OHSACT and local procedures.

4.4.8 Inspection of Equipment

- The *Supplier's* equipment is inspected by an authorised Eskom employee on arrival at the site.
- A list of all lifting equipment and electrical equipment must be submitted to the *Employer* at least 2 days prior to the occupation date. This list must indicate the unique number and description of the equipment and any certificates that are required.

14. Requirements for the program

- The *Contractor* shall submit a program, compiled in Microsoft Project or similar program, which will provide details of the list of activities and the duration of each activity.
- A list of activities and duration of each shall be made available after an instruction to commence work is supplied to the *Contractor* by the *Employer's Representative*.
- All activities and requirements for interfaces between the *Contractor* and *Employer* shall be listed in the program.
- The program shall be updated weekly and will be used to manage all installation activities.
- The *Contractor* submits a bar chart program one week after award of the contract showing the following:
 - The early start and early completion date of each activity.
 - The late start and late completion of each activity.
 - Planned completion.
 - The order and planning of operations which the *Contractor* plans to do in order to provide *the works*.
 - The *Contractor* prepares and submits an update, seven days after the start date, showing actual progress and the effect upon the remainder of the activities to be completed.

14.1 Use of standard forms

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

The *Contractor* shall use the following standard form and all the forms shall be requested from the *Employer* when needed:

- DCC 333 - *Employer's* Assessment
- DCC 367 – Event Register
- DCC 368 – Completion Certificate
- DCC 370 – Access Certificate
- DCC 371 – Notification of Defect
- LFM 1007 – Quality Control for *Contractor*

14.2 Invoicing and payment

In terms of core clause 50 the *Contractor* assesses the amount due and applies to the *Employer* for payment. The *Contractor* applies for payment with a tax invoice addressed to the *Employer* as follows:

The *Contractor* includes the following information on each tax invoice:

Name and address of the *Contractor*.

The contract number and title;

Contractor's VAT registration number;

The *Employer's* VAT registration number 4740101508;

The total Price for Work Done to Date which the *Contractor* has completed;

Other amounts to be paid to the *Contractor*;

Less amounts to be paid by or retained from the *Contractor*;

The change in the amount due since the previous payment being the invoiced amount - excluding VAT, the VAT and including VAT;

The original copy of an invoice shall be send to the *Employer's* accounts payable section (APS).

14.3 Records of Defined Cost

- In order to substantiate the Defined Cost of compensation events, the *Employer* may require the *Contractor* to keep records of amounts paid by him for people employed by the *Contractor*, Plant and Materials, work subcontracted by the *Contractor* and Equipment. [See clause 11.2(5) and 63.2].
- The *Contractor* shall keep all the original invoice and these invoice shall be supplied to the *Employer* shall the need arise.

15. Accelerated Shared Growth Initiative – South Africa (ASGI-SA)

- Refer to conditions of tendering.

16. BBBEE and preferencing scheme

- Refer to conditions of tendering.

17. Others

- The *Contractor* shall use one-way traffic method during construction.
- The 2 way radios and stop & go signs or robots shall be used.
- All road construction signs shall be in place.
- The work shall be conducted only during the day.
- No work shall be conducted during the rainy day, the attached weather forecast shall be used as base for planning.
- Regular auditing of the *Contractor's* SHE file and works by the *Employer* shall be conducted. Failure to comply shall result in work stoppage subsequently termination of contract.
- The *Contractor* shall provide the competent construction supervisor as per construction regulations.
- This supervisor shall have a minimum of a Civil Engineering National Diploma and a minimum three years roads experience.

SUPPLY AND DELIVERY OF THERMOCOUPLES AND RTD'S TO LETHABO POWER STATION FOR A FIVE (5) YEAR PERIOD FOR STOCK REPLENISHMENT ON AN AS AND WHEN REQUIRED BASIS.

The *Contractor* shall have the Snr. Civil Engineer with a four-year degree and a minimum of three years roads experience. This Engineer shall inspect the works at least once a week and he/she shall be available to hold the meetings with the *Employer* if the need arise.

18. Standard Specifications

DOCUMENT No.	REV.	TITLE	ATTACHED
LBA 00030	2	Safety with which contractors are to conform at Lethabo Power Station	Y
LBA 00040	0	Lethabo Environmental Procedure	Y
LBA 00049	0	Procedure for Commissioning of New/Modified Plant	Y
LBA 00054	1	Hazardous waste storage and removal procedure	N
LBA 00067	0	Health, Safety and Environmental Specification for Contractors	Y
LBA 00085	1	Master Permit to Work for declared major outages	Y
LBA 00108	0	Contractor's site administration	N
LBT 00015	0	New or Modifications to Electrical Plant Requirements	N
LBT 00017	0	Limited Access Register Procedure	N
GGR0992		Plant Safety Regulations for Lethabo Power Station	N
LBA0060		Change Management Procedure	N
ESKASAAU7	0	Quality Requirements for the Procurement of Assets, Goods and Services	N
LBA00135	0	Control & Prevention of asbestos exposure at Lethabo	N
PS053	1	Intellectual Property	N
LBA00172		The use and control of solvents and degreasers	N

19. NEMA Clauses

National Environmental Management Act (Act No.107 of 1998)

In carrying out his obligation as the mandatory to the Employer for this contract in terms of the National Environmental Management Act No. 107 of 1998, the Supplier ensures that he complies with the Act when Providing the Services or using plant, materials or equipment.

19.1 Permit to Work System

- NO work shall be carried out without a "PERMIT TO WORK"
- The *Contractor's* Responsible Person must satisfy himself that all sources of possible danger are isolated. Details of the Permit to Work system can be found in the Plant Safety Regulations for Lethabo Power Station, Eskom OPR 3305.
- A Master Permit to Work is used on declared major outages, details can be found in local procedure LBA 00085. Permit changes are made during the dead time, if it is required by the *Contractor* that a certain supply be made available or plant tested than this can be applied for at the Project Management Meeting at least 1 day in advance.
- Plant with a prohibitive sign attached may only be operated by appointed Eskom

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personnel. Any *Contractor* employee found tampering with such plant will be permanently removed from Site.

19.2 Safety Induction Course

- All the employees of the *Contractor* must attend a safety induction course before they will be allowed to work on the Site. It is the responsibility of the *Contractor* to ensure that all employees have attended the safety induction.
- A list of employees requiring safety induction must be submitted at least 2 days in advance of arrival on site with the date and time of arrival so that the safety induction can be arranged.

19.3 IBI Awareness Techniques

- "To prevent incidents and ensure continuous improvement of Lethabo Power Stations business performance in all areas affecting safety, reliability and production, it is expected of all CONTRACTORS service personnel, to attend a three(3) hour training session on Integrated Business Improvement Awareness, which has to be done as soon as work has commenced; This is to ensure familiarisation and use of error-prevention tools/techniques inclusive of, Pre and Post-job briefs, Risk Assessments, Self-checks (STAR principle), Job observations, Effective communications e.g.3- way, Questioning attitude, Procedural adherence, Hand overs and other related topics.
- A monthly IBI scorecard to be completed indicating the use of error prevention tools/ techniques; The assigned employee fulfilling the role of IBI representative has to attend the IBI representative's forum fortnightly, on Tuesdays, duration one hour.
- An IBI representative appointed by the Contractor/Supplier/Consultant to attend the IBI Representative Forum One (1) hour every Tuesday (fortnightly).
- IBI Awareness training will be provided by Lethabo Power Station personnel, free of charge, course bookings can be arranged by contacting Rabie Heymans on extension 5094".

19.4 Transportation of passengers: open LDV's:

No Eskom employee or Contractor would be allowed to transport passengers on the back of open light delivery vehicles (LDV's).

It is a legal requirement to provide safe transportation of Eskom and Contractor employees – therefore the following will be enforced:

- All passengers must be transported in a closed vehicle with proper and adequate seating, fitted with safety belt for the number of passengers to be transported. NO passengers may be transported on the back of a light delivery vehicle (LDV) whether open or closed.
- Tools and equipment must be properly secured.
- Only authorised drivers may transport passengers.
- Proof must be submitted on request in terms of valid roadworthiness of the Vehicle/s.
- The above must apply to on site and off site transportation of passengers.

19.5 Eskom Life Saving Rules:

Five Life Saving Rules have been developed that will apply to all Eskom employees, agents, consultants and contractors.

- **Rule 1:** Open, Isolate, Test, Earth, Bond, And/Or Insulate before touch - that is any plant operating above 1 000 V.
- **Rule 2:** Hook up at heights - no person may work at height where there is a risk of falling.
- **Rule 3:** Buckle up – no person may drive any vehicle on Eskom business and/or on Eskom premises: unless the driver and all passengers are wearing seat belts.
- **Rule 4:** Be sober (no person is allowed to work under the influence of drugs and

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alcohol.

- **Rule 5:** Use a permit to work – where an authorization limitations exists, no person shall work without the required permit to work.

19.6 Local Safety Procedures

- The *Contractor* adheres to all local procedures. A list of local procedures are available on request from the *Employer*

19.7 Incidents / Accidents

- Incidents and accidents must be reported and investigated as detailed in LBA 00030. All incidents must also be reported to the *Employer* within 24 hours.
- First aid must be made available either by the *Contractor* or use can be made of the Lethabo medical centre at a fee. The availability of the *Contractor's* own first aid does not relieve the *Contractor* of his obligation to report and investigate the incident in accordance with Lethabo Procedure.

19.8 Fire Prevention

- Fire prevention and protection requirements to which *Contractors* must comply are detailed in LBA 00030.

19.9 Protective Equipment and Clothing

- The *Contractor* supplies his own personal protective equipment to personnel as necessary to carry out the works and the Contractor shall ensure that all overalls for his staff have clearly identifying company Logo's. Cost to be stipulated in the Price List – health and Safety Cost.
- The *Contractor* is also responsible to inspect and maintain such equipment as required in terms of the OHSACT and local procedures.

19.10 Inspection of Equipment

- The *Contractor's* equipment is inspected by an authorized Eskom employee on arrival at the site.
- The following documentation is required to accompany the equipment where applicable: copies of all test certificates and maintenance records.
- Lifting equipment and electrical equipment must be marked with a unique number, code or colour code for identification. If the equipment is found to be in an unsatisfactory condition or if insufficient maintenance has been carried out on the equipment then it will not be approved for use on Site. A list of all lifting equipment and electrical equipment must be submitted to the *Employer* at least 2 days prior to the occupation date. This list must indicate the unique number and description of the equipment.
- Training of operators must comply with the Works Information and statutory requirements.

19.11 Documentation

The *Contractor* is responsible to have the following documentation available on site in accordance with LBA 00030:

- A copy of the OHSACT.
- Copies of all site accident report forms as required by the OHSACT.
- Copies of minutes of health and safety meetings held on site.
- Copies of inspection reports produced by the accident prevention officer.

20. Environmental Policy and Waste Handling

Lethabo Environmental Policy LBPS010 must be adhered to.

20.1 Disposal of Waste

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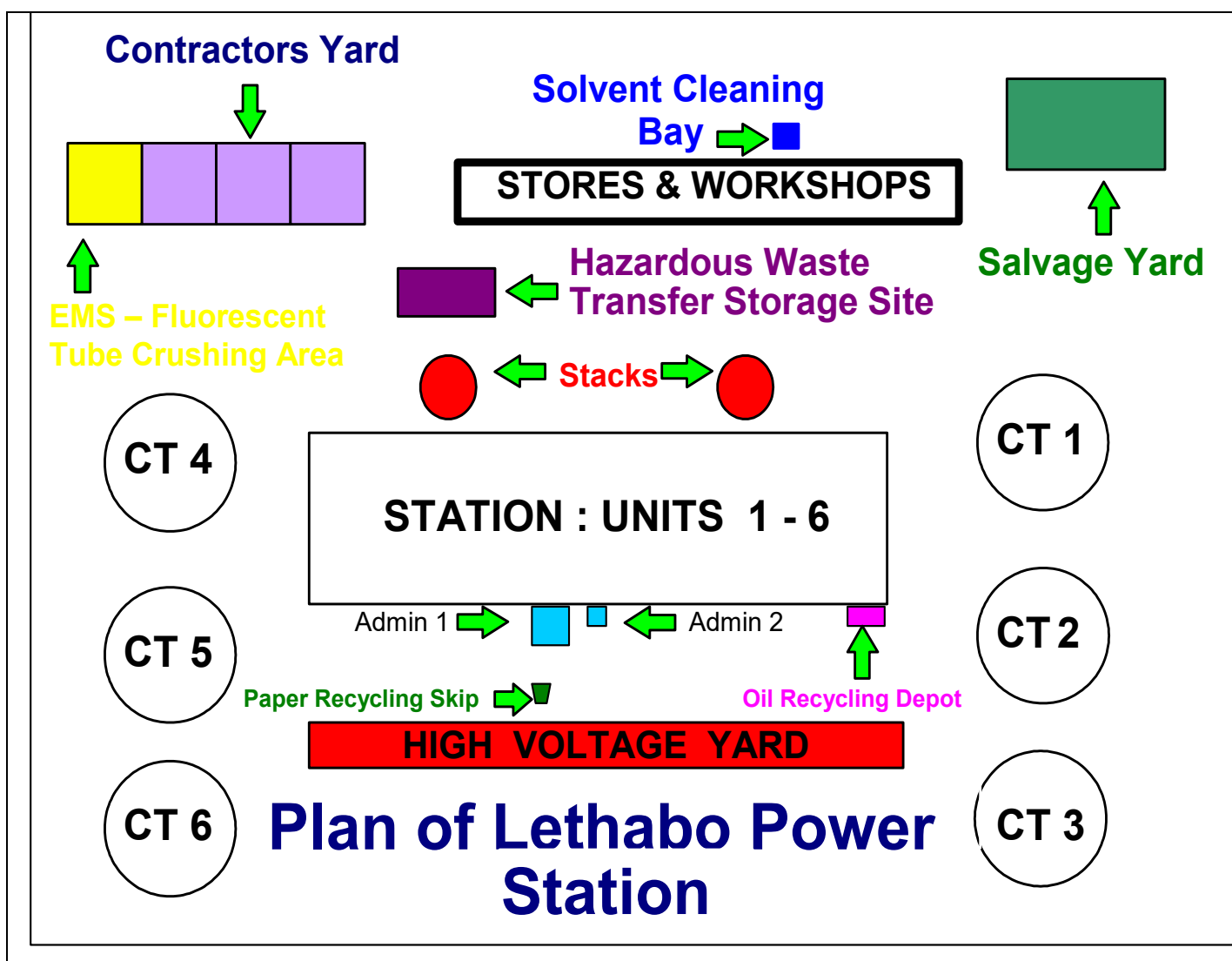
Waste shall be removed promptly to the designated deposit areas. No stockpiling will be permitted.

- Domestic waste to the white waste bins
- Production waste in the marked bins i.e. coal and ash only
- Paper and cans to their respective recycling bins
- Contact Civil Engineering for the disposal of building rubble
- Scrap metal, Wood & Rubber, Redundant Valves, Pipes, Equipment etc. to be placed in the marked bins in the new Salvage Yard. Solvents and cloths used to the Cleaning Bay.

Accommodation of Employees

- The *Contractor* is responsible for the provision of accommodation or meals of his own personnel, and the cost thereof to be included in his *Price*.
- The *Contractor* is responsible for the provision of transportation for all Personnel to site, from site and on Site.

Location



20.2 Access

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- The *Employer* provides access to the *Suppliers'* personnel and equipment.
- If the *Employer* can not provide access, then the *Supplier* makes his own assessment of, and allows in his rates for those access problems due to confined and restricted areas, existing structures and equipment, etc., which may be encountered.
- No extra payment or claim of any kind will be allowed on account of difficulties of access for the requirements of working adjacent to or in the same area as other *Suppliers* operations.

20.3 Access to and Departure from the Site

- The *Supplier* allows in his price and program for delays at the security gate.
- The *Employer* reserves the right for its Security personnel to search persons or vehicles entering or leaving the premises.
- This includes briefcases and toolboxes.

20.4 Equipment or Material Access and Removal

- The *Supplier* ensures that all equipment and materials brought through the security gate is signed in at the main security gate on an OV18 form.
- If the equipment or material is to be removed the same day then the OV18 form will need to be produced at the gate when leaving the site.
- If the equipment or material is removed after this time then a Non Returnable Gate Release needs to be obtained from the *Employer*.
- The *Supplier* is not allowed to remove any equipment or materials from site without producing the relevant OV18 forms or the equipment lists

20.5 Access for and Interface with other Contractors

- The *Employer* provides access for, and interface with, other *Suppliers* to the *Suppliers'* personnel and equipment
- If the *Employer* cannot provide access and interface, then the *Supplier* makes his own assessment of the problems and difficulties which may be encountered
- No extra payment or claim of any kind will be allowed on account of providing reasonable access to, and interfacing with others.

20.6 Materials delivered to the *Employer* by the *Supplier* as part of Providing the Services.

- Before access is given to the Site, the *Supplier* is to provide a list of all equipment as supplied by the *Supplier*.

20.7 Restrictions on the use of materials provided by the *Supplier*.

- Any Material provided by the Supplier is restricted to use and copying as required for of this Contract only.

20.8 Form of the programme and procedure for submitting and revising it

- The *Supplier* is to provide the *Employer* on completion of the Task Order a report in the form of a database or manually.

20.9 Drawings

- The *Employer* supply to the *Supplier* on request, any drawings that may be required to provide the Services.

20.10 Site Information

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The Site is at Lethabo Power Station situated $\pm$ 18 km South of Vereeniging on the Viljoensdrif - Deneysville Road, Free State. Access to the site will be via the main security gate only. The *Employer* informs the *Supplier* of the access procedures, and it should be expected that such procedures may change depending on the prevailing security situation.