



NEC3 Supply Contract (SC3)

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

and [Insert at award stage]
(Reg No. _____)

for **Supply and Delivery of Alignment Switches, Electrical Switches, Flow Switches, Level Switches, Limit Switches, Pressure Switches, Selector Switches, Toggles Switches, Proximity Sensors and Push Buttons as and when Required at Arnot Power Station for a Period of Five (5) Years**

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

CONTRACT No. [Insert at award stage]

PART C1: AGREEMENTS & CONTRACT DATA

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

C1.1 Form of Offer & Acceptance

C.1.1.1 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 SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION 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	R [●]
	Value Added Tax @ 15% is	R [●]
	The offered total of the amount due inclusive of VAT is ¹	R [●]
(in words) [●]		

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

Signature(s)

Name(s) _____

Capacity _____

For the tenderer:

(Insert name and address of organisation)

Name & signature of witness

Date

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

ESKOM HOLDINGS SOC LTD

CONTRACT NUMBER _____

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

[Empty rectangular box with a dotted border]

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Acceptance

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

The terms of the contract, are contained in:

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

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

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

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

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

Signature(s)

Name(s) _____

Capacity _____

for the Purchaser

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

(Insert name and address of organisation)

Name & signature of witness

Date

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

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

Note:

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

No.	Subject	Details
1		
2		
3		
4		
5		
6		
7		

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

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Form shall have any meaning or effect in the contract between the parties arising from this Agreement.

For the tenderer:

For the Purchaser

Signature

.....

.....

Name

.....

.....

Capacity

.....

.....

On behalf of

(Insert name and address of organisation)

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

Name & signature of witness

.....

.....

Date

.....

.....

C1.2 SC3 Contract Data

Part one - Data provided by the *Purchaser*

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

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for Options	
		X1: Price adjustment for inflation
		X2 Changes in the law
		X7: Delay damages
		X17: Low performance damages
		Z: Additional conditions of contract
	of the NEC3 Supply Contract (April 2013) ¹	
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.	013 297 9111
	Fax No.	N/A
10.1	The <i>Supply Manager</i> is (name):	
	Address	Eskom Holdings SOC Limited (Reg No: 2002/015527/06) Arnot Power Station Private Bag x2, Rietkuil 1097
	Tel	013 297 9111
	Fax	N/A
	e-mail	
11.2(13)	The <i>goods</i> are	Alignment Switches, Electrical Switches, Flow Switches, Level Switches, Limit Switches, Pressure Switches, Selector Switches, Toggle

¹ Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902, www.ecs.co.za.

Switches, Proximity Sensors and Push Buttons

11.2(13)	The <i>services</i> are	SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS	
11.2(14)	The following matters will be included in the Risk Register	<ul style="list-style-type: none"> • Late Deliveries • Supply and Delivery of Goods that failed to meet contractual specifications 	
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	Five (5) working days	
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.		
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	Goods and Services	Delivery Date
		1	As stated in every Purchase Order issued
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.	N/A	
31.1	The <i>Supplier</i> is to submit a first programme for acceptance within	N/A	
32.2	The <i>Supplier</i> submits revised programmes at intervals no longer than	N/A	
4	Testing and defects		
42	The <i>defects date</i> is	Two (2) weeks after delivery of goods and services	
42.2	The <i>defect access period</i> is	One (1) day	
42.2	The <i>defects corrections period</i> is	One (1) week or as agreed by the parties	
5	Payment		

50.1	The <i>assessment interval</i> is	between the 30 days of each successive month.
51.1	The <i>currency of this contract</i> is the	ZAR (South African Rand)
51.2	The period within which payments are made is	30 days after the receipt of correct and undisputed tax invoice
51.4	The <i>interest rate</i> is	the publicly quoted prime rate of interest (calculated on a 365-day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and
6	Compensation events	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
7	Title	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
8	Risks, liabilities, indemnities and insurance	
84.2	The minimum amount of cover for loss of or damage to any plant and materials provided by the <i>Purchaser</i> is:	The greater of the total of the prices and the Generation asset property damage insurance deductible in the amount of R25 Million
84.2	The minimum limit of indemnity for insurance in respect of 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 for any one event is:	<p>Whatever the <i>Supplier</i> deems necessary in addition to that provided by the <i>Purchaser</i> for any one event with cross liability so that the insurance applies to the Parties separately.</p> <p>However, if the <i>Supplier</i> is exposed to damage to the <i>Purchaser's</i> property the cover limit amount is not less than</p> <ul style="list-style-type: none"> • R15 million (fifteen million Rand) for exposure to Generation Division property; <p>for any one occurrence or series of occurrences arising out of one event but unlimited during the period of insurance.</p>
84.2	The minimum limit of indemnity for insurance in respect of 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 for any one event is:	As prescribed by the Compensation for Occupational Injuries and Diseases Act No.130 of 1993 and the Contractor's common law liability for people falling outside the scope of the Act with a limit of Indemnity of not less than R500 000(five hundred thousand Rand).

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)
88.5	The <i>end of liability date</i> is	One (1) year after expiry of contract

9 Termination and dispute resolution

94.1	The <i>Adjudicator</i> is	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him. (see www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
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	South Africa
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.
	- if the arbitration procedure does not state who selects an arbitrator, is	

10 Data for Option clauses

X1	Price adjustment for inflation		
X1.1	The <i>base date</i> for indices is	[•].	
	The proportions used to calculate the Price Adjustment Factor are:	Proportion	linked to index for
		15%	Fixed
		5%	Material
		15%	Material
		25%	Material
			Index prepared by
			Fixed Portion
			SEIFSA Table J-A Power Transformer Indices (Small & Large)
			SEIFSA Table E8 EN36 Commodity Range (DIA 16 - =<40MM)
			SEIFSA Table M5 (Polymer Index) PVC

		20%	Labour	SEIFSA Table C3 Actual Labour Cost
		20%	Transport	SEIFSA Table L1 (B) Road Freight Cost
		100%		
X2	Changes in the law			
X2.1	A change in the law of	is a compensation event if it occurs after the Contract Date		
X7	Delay damages			
X7.1	Delay damages for Delivery are	Delivery of	amount per day	
		Incorrect items or late delivery	5-10% of purchase order value	
X7.2	Delivery Lead Time	Four-Six (4-6) Weeks		
X17	Low performance damages			
X17.1	The amounts for low performance damages are:	amount	performance level	
		As stated in every Purchase Order issued	For each low performance product	
Z	The additional conditions of contract are	Z1 to Z15 always apply for Eskom		

Z1 Cession delegation and assignment

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

Z2 Joint ventures

- Z2.1 If the *Supplier* constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations then these persons or organisations are deemed to be jointly and severally liable to the *Purchaser* for the performance of this contract.
- Z2.2 Unless already notified to the *Purchaser*, the persons or organisations notify the *Supply Manager* within two weeks of the Contract Date of the key person who has the authority to bind the *Supplier* on their behalf.

Z2.3 The *Supplier* does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the *Purchaser* having been given to the *Supplier* in writing.

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

Z3.1 Where a change in the *Supplier's* legal status, ownership or any other change to his business composition or business dealings results in a change to the *Supplier's* B-BBEE status, the *Supplier* notifies the *Purchaser* within seven days of the change.

Z3.2 The *Supplier* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Supply Manager* within thirty days of the notification or as otherwise instructed by the *Supply Manager*.

Z3.3 Where, as a result, the *Supplier's* B-BBEE status has decreased since the Contract Date the *Purchaser* may either re-negotiate this contract or alternatively, terminate the *Supplier's* obligation to Provide the Goods and Services.

Z3.4 Failure by the *Supplier* to notify the *Purchaser* of a change in its B-BBEE status may constitute a reason for termination. If the *Purchaser* terminates in terms of this clause, the procedures on termination are P1, P2 and P3 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.

Z4 Confidentiality

Z4.1 The *Supplier* does not disclose or make any information arising from or in connection with this contract available to Others. This undertaking does not, however, apply to information which at the time of disclosure or thereafter, without default on the part of the *Supplier*, enters the public domain or to information which was already in the possession of the *Supplier* at the time of disclosure (evidenced by written records in existence at that time). Should the *Supplier* disclose information to Others in terms of clause 23.1, the *Supplier* ensures that the provisions of this clause are complied with by the recipient.

Z4.2 If the *Supplier* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Supply Manager*.

Z4.3 In the event that the *Supplier* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Supplier*, to the extent permitted by law prior to disclosure, notifies the *Purchaser* so that an appropriate protection order and/or any other action can be taken, if possible, prior to any disclosure. In the event that such protective order is not, or cannot, be obtained, then the *Supplier* may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed.

Z4.4 The taking of images (whether photographs, video footage or otherwise) of the *goods* or any portion thereof, in the course of Providing the Goods and Services and after Delivery, requires the prior written consent of the *Supply Manager*. All rights in and to all such images vests exclusively in the *Purchaser*.

Z4.5 The *Supplier* ensures that all his subcontractors abide by the undertakings in this clause.

Z5 Waiver and estoppel: Add to core clause 12.3:

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

writing.

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

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

Without limitation the *Supplier*:

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

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

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

Z7.1 Within one week of receiving a payment certificate from the *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice in accordance with the *Purchaser's* procedures stated in the Goods Information, showing the amount due for payment equal to that stated in the payment certificate.

Z7.2 If the *Supplier* does not provide a tax invoice in the form and by the time required by this contract, the time by when the *Purchaser* is to make a payment is extended by a period equal in time to the delayed submission of the correct tax invoice. Interest due by the *Purchaser* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.

Z7.3 The *Supplier* (if registered in South Africa in terms of the companies Act) is required to comply with the requirements of the Value Added Tax Act, no 89 of 1991 (as amended) and to include the *Purchaser's* VAT number 4740101508 on each invoice he submits for payment.

Z8 Notifying compensation events

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

Z9 Purchaser's limitation of liability

Z9.1 The *Purchaser's* liability to the *Supplier* for the *Supplier's* indirect or consequential loss is limited to R0.00 (zero Rand)

Z9.2 The *Supplier's* entitlement under the indemnity in 83.1 is provided for in 60.1(12) and the *Purchaser's* liability under the indemnity is limited.

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

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

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

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

Z12 Ethics

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

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

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

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

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

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

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

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

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

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

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

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

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

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

Z13 Insurance

Z 13.1 Replace core clause 84 with the following:

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

Insurance 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><i>Purchaser's</i> property</u> The replacement cost where not covered by the <i>Purchaser's</i> insurance. The <i>Purchaser's</i> policy deductible as at Contract Date, where covered by the <i>Purchaser's</i> insurance. <u>Other property</u> The replacement cost <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

INSURANCE TABLE A

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

Z14 Nuclear Liability

Z14.1 The *Purchaser* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation, as designated by the National Nuclear Regulator of the Republic of South Africa and is the holder of a nuclear licence in respect of the KNPS.

Z14.2 The *Purchaser* is solely responsible for and indemnifies the *Supplier* or any other person against any and all liabilities which the *Supplier* or any person may incur arising out of or resulting from nuclear damage, as defined in Act 47 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Supplier* or any other person or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.

Z14.3 Subject to clause Z14.4 below, the *Purchaser* waives all rights of recourse, arising from the aforesaid, save to the extent that any claims arise or liability is incurred due or attributable to the unlawful intent of the *Supplier* or any other person, or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.

Z14.4 The *Purchaser* does not waive its rights provided for in section 30 (7) of Act 47 of 1999, or any

replacement section dealing with the same subject matter.

Z14.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

Z15 Asbestos

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

AAIA	means approved asbestos inspection authority.
ACM	means asbestos containing materials.
AL	means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4-hour period. The value at which proactive actions is required in order to control asbestos exposure to prevent exceeding the OEL.
Ambient Air	means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
Compliance Monitoring	means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>Purchaser's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.
SANAS	means the South African National Accreditation System.
TWA	means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4-hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

Z15.1 The *Purchaser* ensures that the Ambient Air in the area where the *Supplier* will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) ("Asbestos Regulations"). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short-term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

- Z15.2 Upon written request by the *Supplier*, the *Purchaser* certifies that these conditions prevail. All measurements and reporting are affected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited, and Department of Employment and Labour approved AAIA. The *Supplier* may perform Parallel Measurements and related control measures at the *Supplier's* expense. For the purposes of compliance, the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z15.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.
- Z15.3 The *Purchaser* manages asbestos and ACM according to the Standard.
- Z15.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented and relevant air monitoring conducted in order to declare the area safe.
- Z15.5 The *Supplier's* personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.
- Z15.6 The *Supplier* continues to Provide the Services, without additional control measures presented, on presentation of Safe Levels. The contractually agreed dates to Provide the Services, including the Completion Date, are adjusted accordingly. The contractually agreed dates are extended by the notification periods required by regulations 3 and 21 of the Asbestos Regulations.
- Z15.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the *Purchaser* at the *Purchaser's* expense, and conducted in line with South African legislation.

Annexure A: Supply Requirements

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

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

The *Supplier* supplies the *goods* in accordance with INCOTERMS 2010² as follows:

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

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

² International Chamber of Commerce, Incoterms 2010, Paris, January 2011

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

D	arrival	DAT, DAP, DDP	
---	---------	---------------	--

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

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

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

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

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

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

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

The Supply Requirements for this contract are as follows:

[Use these when INCOTERMS do not apply].

1. The requirements for the supply are	Alignment Switches, Electrical Switches, Flow Switches, Level Switches, Limit Switches, Pressure Switches, Selector Switches, Toggle Switches, Proximity Sensors and Push Buttons	
2. The requirements for transport are	The <i>Supplier</i> is responsible for transporting the goods to Site. The <i>Supplier</i> takes responsibility of the goods while in transit i.e. insurances etc. Goods are to be off loaded at Arnot Power Station Main Stores Receiving	
3. The delivery place is	Eskom Arnot Power Station	
4. Actions of the Parties during supply	Action	Party which does it
	Giving notice of Delivery	<i>Supplier</i>
	Checking packing and marking before dispatch	<i>Supplier</i>
	Contracting for transport	<i>Supplier</i>
	Pay costs of transport	<i>Supplier</i>
	Arrange access to delivery place	<i>Supplier</i>
	Loading the <i>goods</i>	<i>Supplier</i>
	Unloading the <i>goods</i>	<i>Supplier</i>
For international procurement	Undertake export requirements	<i>Supplier</i>
	Undertake import requirements	<i>Supplier</i>
5. Information to be provided by the <i>Supplier</i>	Title of document	
	Packing lists for cases and their contents	
	Copy of invoice for the <i>goods</i>	
	Delivery Note	
	Test results and maintenance manuals	

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

C1.2 Contract Data

Part two - Data provided by the *Supplier*

Notes to a tendering supplier:

1. Please read both the NEC3 Supply Contract (SC3)¹ and the relevant parts of its Guidance Notes (SC3-GN)² 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:	Annexure A
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	N/A
25.2	The restrictions to access for the <i>Supply Manager</i> and Others to work being done for this contract are	None
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	Stated in every Purchase Order
63.2	The <i>percentage for overheads and profit</i> added to the Defined Cost is	N/A

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

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

PART 2: PRICING DATA

NEC3 Supply Contract

Document reference	Title	No of pages
	This cover page	1
C2.1	Pricing Assumptions	2
C2.2	<i>The Price Schedule</i>	8
	Total number of pages	11

C2.1 Pricing assumptions

1. 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 <ul style="list-style-type: none"> • 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>. <p>Any tax which the law requires the <i>Purchaser</i> to pay to the <i>Supplier</i> is included in the amount due.</p>

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

2. 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.

3. 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;

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

- 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.

3.1. Format of the *price schedule*

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

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

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

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

C2.2 the price schedule

Item No.	Description	Unit	Quantity	Rate	Amount
1	SWITCH, TOGGLE: POTENTIAL: 250 V; CURRENT: 5 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NC; REFERENCE NO: 1602; MOUNT: FLUSH WALL; TYPE: LIGHT; 2 WAY	EA	20		
2	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 10 MM; POTENTIAL: 7-9 VDC; CURRENT: 20MA; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: NI10-G18-Y1	EA	20		
3	SWITCH, PRESSURE: TYPE: MILL LUBE OIL; RANGE: 15-100 BAR; POTENTIAL: 250 V; CURRENT: 4 A; CONNECTION: FLANGE; ENCLOSURE RATING: IP65; REFERENCE NO: X1T4000-10; OEM: BARKSDALE	EA	10		
4	SWITCH, FLOW: MATERIAL: BRS/SS; POTENTIAL: 220 VAC; RANGE: 0-1600 KPA; ACTION: SPDT; PIPE CONNECTION: BSP 1 IN; REFERENCE NO: F61TB-9100; SUPPL P/N: EGE SN450/2-A4-WR2; BOTTOM ENTRY; USED ON THE MAIN ASH PUMP INTERLOCK SYSTEMS; PROBE LENGTH 80MM	EA	20		
5	SWITCH, LIMIT: POTENTIAL: 600 VAC; CURRENT: 15 A; ACTION: SPDT; ACTUATOR: WIRE; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: WD 102 X LG 445 X HT 140 MM; SUPPL P/N: 53197; REFERENCE NO: C7-53198; AFU0333-11; BELT TRIP, DOUBLE END	EA	30		
6	SWITCH, PUSHBUTTON: COLOR: RED; ELECTRICAL RATING: 500 V AC/DC 5A; ACTION: DPST; CONTACT ARRANGEMENT: 2NC; MOUNT: PANEL FLUSH; REFERENCE NO: 10250T102; 90006; CONTACT BLOCK	EA	70		
7	SWITCH, TOGGLE: POTENTIAL: 250 VAC; CURRENT: 15 A; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: 1701-15; TYPE: LIGHT; FLUSH WALL MOUNT; WITH 2 X 4 COVER; SINGLE LEVER	EA	30		

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Item No.	Description	Unit	Quantity	Rate	Amount
8	SWITCH, SENSITIVE: ACTUATOR STYLE: PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250 V; CURRENT: 15 A; BODY STYLE: MICRO; REFERENCE NO: T10-12BS2; CODE 50; ACTION SPDT	EA	10		
9	SWITCH, SENSITIVE: ACTUATOR STYLE: PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250 VAC; CURRENT: 15 A; BODY STYLE: MICRO; SUPPL P/N: B400; REFERENCE NO: R173P4; 20; ACTION: SPDT	EA	10		
10	SWITCH, SENSITIVE: ACTUATOR STYLE: LEVER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250 VAC; CURRENT: 15 A; BODY STYLE: MICRO; REFERENCE NO: BZRW80; ACTION: SPDT	EA	10		
11	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: 3; POTENTIAL: 550 VAC; CURRENT: 16 A; CONTACT CONFIGURATION: 0/1/2; TYPE: ROTARY; REFERENCE NO: C20A401F093; 3 POLE; PANEL MOUNTED; REVERSING OFF POSITION; 380V	EA	10		
12	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: 7; POTENTIAL: 600 V; CURRENT: 16 A; CONTACT CONFIGURATION: OFF; 1; 2; 3; 4; 5; 6; CONTACT ARRANGEMENT: 6+6 CONNECTIONS; TYPE: ROTARY; ACTION: 3 PHASE; APPLICATION: ELECTRIC STOVE; DIMENSIONS: SHAFT 6 MM; REFERENCE NO: SRP116XL; 6 SEGMENT; 10 HP; 3PH WITH FACE PLATE; POSITIONS: OFF, 1,2, 3,4,5,6; SANDTON BRAND	EA	10		
13	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 17.25-207 KPA; 2.5-30 PSI; POTENTIAL: 250 V; CURRENT: 5 A; ACTION: SPDT; CONNECTION: 1/8 IN-FNPT; CONTACT ARRANGEMENT: 2NO 2NC; MODEL NO: D42 0B	EA	10		
14	SWITCH, PUSHBUTTON: COLOR: RED; ACTION: DPST; CONTACT ARRANGEMENT: 2NO; MOUNT: WALL; EMERGENCY STOP; AUTO STOP IP 65; LIST NUMBER 91176; CUTTER HAMER	EA	10		
15	SWITCH, SENSITIVE: ACTUATOR STYLE: PLUNGER; CONTACT ARRANGEMENT: 2NO 2NC; POTENTIAL: 230 VAC; CURRENT: 0.3 A; ACTUATOR QUANTITY: 1; BODY STYLE: MICRO; REFERENCE NO: 9007C03; ACTION: DPDT; ACTUATOR; PF MILLS; FOR SQ D PRESSURE SWITCHES	EA	10		

Item No.	Description	Unit	Quantity	Rate	Amount
16	SWITCH, LIMIT: POTENTIAL: 240 V; CURRENT: 3 A; ACTION: 2P; ACTUATOR: SPRING RETURN ROD LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: AL/PLASTIC; POWER: 720 W; DIMENSIONS: WD 55 X LG 40 X DP 280 MM; ENCLOSURE RATING: IP67; MANUF P/N: XCKS159H29; CONTACT TYPE SNAP ACTION, MIN OPERATING TEMP -25 DEG C, MOUNTING VERTICAL, MAX OPERATING TEMP 70 DEG C	EA	120		
17	SWITCH, LIMIT: POTENTIAL: 220 VDC; ACTION: SPDT; ACTUATOR: ROLLER PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; SUPPL P/N: 2P3100-165; TSR461-122Y; REFERENCE NO: 7PIN; COMPLETE, WITH PLUNGER "R", 7 PIN, SOCKET MALE AND FEMALE, NE NO FORWARD, NC NO REVERSE	EA	10		
18	SWITCH, FLOW: MATERIAL: PADDLE SS; POTENTIAL: 240 VAC; CURRENT: 37 A; RANGE: 150 LB; 300 DEG C; ACTION: DPDT; CONNECTION: 1 IN-FNPT; ENCLOSURE: NEMO TYPE 1 (IP 21); PIPE CONNECTION: 1 IN-NPT; MODEL NO: FS 4 3T1-1 INCH; REFERENCE NO: FS43T	EA	10		
19	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 98 MM; POTENTIAL: 120/240/480/600 VAC; CURRENT: 120 VAC 10 A; 24 VDC 3A; ACTION: DPDT; CONTACT ARRANGEMENT: 2NO 2NC; DIMENSIONS: SQ 38 X LG 124 MM; CONNECTION: 4 WIRE LEAD; APPLICATION: DAMPERS; CLASSIFICATION: HIGH TEMPERATURE AREA; SUPPL P/N: 81-20156-A3; MODEL NO: 81; REFERENCE NO: 020103; TYPE DPDT- BB; (NO)(NC); LEVERLESS HEAVY PILOT DUTY; 1 COMMON POINT AND EARTH; 18 GAUGE (DIAMETER 110 INCH) POTTED-IN PVC INSULATED AWM RATED AT 105 DEG C; 72 INCH (1829 MM); WITH TARGET MAGNET UP TO 3-7/8 INCH MAX END SENSING; SIZE: 1-1/2 INCH (38 MM) SQUARE X 4-7/8 INCH (124 MM) OVERALL SUBTRACT 1/2 INCH (13 MM) FROM LENGTH FOR BOTTOM CONDUIT; CONDUIT OUTLET BOTTOM OF ENCLOSURE	EA	20		
20	MAGNET: TYPE: UTILITY; DIMENSIONS: WD 32 X LG 37 X HT 26 MM; MATERIAL: STL; REFERENCE NO: 414000; GO SYSTEM, COMPLETE WITH ALUMINIUM HOUSING	EA	20		

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Item No.	Description	Unit	Quantity	Rate	Amount
21	SWITCH, TOGGLE: POTENTIAL: 250 V; CURRENT: 15 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO; TYPE: LIGHT; WALL MOUNT; FITTED IN A 75 MM X 75 MM BOX; LITE-MASTER; PRODUCT CODE 62615; 1 WAY	EA	10		
22	SWITCH, LIMIT: POTENTIAL: 600 VAC; CURRENT: 5 A; ACTUATOR: FRICTION WHEEL; CONTACT ARRANGEMENT: 2NO 2NC; ENCLOSURE RATING: GENERAL PURPOSE; SUPPL P/N: CSK77-1797; CENTRIFUGAL, 230 RPM	EA	30		
23	SWITCH, LEVEL: METHOD OF ACTUATION: FLOAT; RANGE: -0 TO 50 DEG C; POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; CABLE LENGTH: 13 M; ENCLOSURE: PLASTIC; SUPPL P/N: ENH10; PEAR BALL, MERCURY FILLED FLOAT	EA	100		
24	SWITCH, LIMIT: POTENTIAL: 380 VAC; CURRENT: 10 A; ACTION: SPST; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; REFERENCE NO: XCKM115; 3; XCK M115; FOR BIOLOGICAL DOOR AT LEVEL +0.00; GENERAL PURPOSE ENCLOSURE	EA	10		
25	SWITCH, PUSHBUTTON: COLOR: RED; MOUNT: PANEL FLUSH; APPLICATION: RELAY PANEL; REFERENCE NO: 9100 T 102; 91000T102; O/A: DIMS LG 32MM X O/ DIA 34MM; LIST 900 21 C/H	EA	20		
26	SWITCH, PUSHBUTTON: COLOR: BLACK; ELECTRICAL RATING: 240 V 4 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: PANEL; SIZE: DIA 34 X WD 32 MM; APPLICATION: RELAY PANEL; REFERENCE NO: 90020; 91000T101; INDICATING; COMPLETE WITH CONTACT BLOCK; CONTACT REF NO: 90001; CUTLER HAMMER	EA	30		
27	SWITCH, DISCONNECT: TYPE: STOVE ISOLATOR; POTENTIAL: 250 V; CURRENT: 50 A; REFERENCE NO: LM5150	EA	30		
28	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-400 KPA; CONNECTION: 1/4 IN-FNPT; MODEL NO: B450S; STAINLESS STEEL DIAPHRAGM AND VITON O RING	EA	60		

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Item No.	Description	Unit	Quantity	Rate	Amount
29	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-100 KPA; MANUF P/N: D420V; MODEL NO: B420V	EA	10		
30	SWITCH, PRESSURE: TYPE: SNAP; RANGE: 0-700 KPA; CONNECTION: 1/4 IN-FNPT; SUPPL P/N: B450S; STAINLESS STEEL DIAPHRAGM AND VITON O-RING	EA	30		
31	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-1400 KPA; CONNECTION: 1/4 IN-FNPT; MODEL NO: B450S; STAINLESS STEEL DIAPHRAGM AND VITON O RING	EA	120		
32	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-700 KPA; CONNECTION: 1/4 IN-FNPT; MODEL NO: B724S; STAINLESS STEEL DIAPHRAGM AND VITON O RING, EXPLOSION PROOF	EA	30		
33	SWITCH, LEVEL: RANGE: 0-10 BAR; 0-400 DEG C; MODEL NO: 5P-04-041; MODULE 5P; FLANGE MODULE 04; FLOAT MODULE 041; FORM C FLANGE FACING	EA	25		
34	SWITCH, LEVEL: RANGE: 0-330 DEG C; ENCLOSURE RATING: IP65; CONTACT RATING: 250 VAC 5 A; REFERENCE NO: A-04-041; MODULE A; FLANGE MODULE 04; FLOAT MODULE 041; FORM C FLANGE FACING	EA	10		
35	SWITCH, LEVEL: METHOD OF ACTUATION: FLOAT; RANGE: 0-330 DEG C; POTENTIAL: 250 VAC; CURRENT: 5 A; ENCLOSURE: IP65; MODEL NO: A01041; SWITCH MODULE A; FLANGE MODULE 01; FLOAT MODULE 041; FORM C FLANGE FACING	EA	10		
36	SWITCH, LEVEL: RANGE: 0-400 DEG C; ENCLOSURE RATING: IP65; CONTACT RATING: 250 VAC 5 A; REFERENCE NO: HA235RL01E11003; MODULE HA; FLANGE MODULE 235RL01E110; FLOAT MODULE 03; FLANGE FACING: RAISED	EA	10		
37	SWITCH, PROXIMITY: TYPE: SPEED; POTENTIAL: 5-36 VDC; CURRENT: 200 MA; SUPPL P/N: IE5238IEA2002-FROG; REFERENCE NO: T95; FREQUENCY TO CURRENT CONVERTER, PICKUP, RANGE 0 - 20 RPM	EA	60		

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Item No.	Description	Unit	Quantity	Rate	Amount
38	SWITCH, PROXIMITY: MANUF P/N: IG5719 IGE2008; REFERENCE NO: FRKG	EA	20		
39	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 690 V; CURRENT: 200 A; SUPPL P/N: D062322242; LOADBREAK; INSULATION 1KV; TERMINAL CAPACITY 30 X 6MM2; NUMBER OF POLES 3; DOUBLE KNIFE CONTACTS, PERFORMANCE REQUIREMENTS; FUSE COMPLETELY DISCONNECTED IN OFF POSITION; POSITIVE CONTACT INDICATION; QUICK MAKE AND BREAK MECHANISM	EA	10		
40	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 3 MM; POTENTIAL: 240 VAC; 48 VDC; CURRENT: 2 A AC; 1.25 A DC; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: DIA 16.7 MM; CONNECTION: CABLE 18 GAUGE; APPLICATION: SFPT DRAIN VALVE; CLASSIFICATION: HIGH TEMPERATURE AREA; SUPPL P/N: 74-13528-B2; MODEL NO: 74; GO SWITCH WITH STAINLESS STEEL CASING; DIA 16 X 70 MM; LONG WITH 5/8 INCH - 18 UNF X 1 7/8 INCH 48 MM THREADS; NO CONDUIT HUB; LOCK NUTS FOR LIMIT TO BE INCLUDED; GO SWITCH TOPWARX; DIAMETER: 250 INCH POTTED IN PVC CABLE RATED AT 80 DEG CB2 36 INCH (914 MM); SENSING APPROXIMATELY 100 INCH END SENSING 2000 PSI	EA	120		
41	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 1 MM; POTENTIAL: 240 VAC; 48 VDC; CURRENT: 2 A AC; 1.25 A DC; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 120 VAC 4 A; 24 VDC 3 A; DIMENSIONS: DIA 9.5 MM; APPLICATION: SFPT DRAIN VALVE; CLASSIFICATION: HIGH TEMPERATURE AREA; SUPPL P/N: 72-16528-B3; MODEL NO: 72; POTENTIAL 48 VDC; CURRENT 1.25 A DC; GO SWITCH WITH STAINLESS STEEL CASING; CABLE 18 GAUGE (250 INCH DIAMETER) PVC CABLE RATED AT 80 DEG C-B3 72 INCH (1829 MM); APPROXIMATELY 040 INCH END SENSING; DIAMETER: 10 X 86 MM LONG WITH 3/8 INCH 24 UNF X 1-1/2 INCH (38 MM) THREADS; NO CONDUIT HUB; LOCK NUTS FOR LIMIT TO BE INCLUDED	EA	100		

Item No.	Description	Unit	Quantity	Rate	Amount
42	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 5-8 MM; POTENTIAL: 10-30 VDC; CURRENT: 100 MA; CONTACT ARRANGEMENT: NO, SHIELDED; DIMENSIONS: DIA 18 X LG 80 MM; CONNECTION: 2 WIRE; SUPPL P/N: W-SSN-018-01; B08185 0C5; MOUNT NUT; PROBE DIAMETER 18 MM, M12 OUTPUT	EA	20		
43	SWITCH, PROXIMITY: TYPE: KNIFE GATE; SENSING RANGE: 8 MM; POTENTIAL: 10-60 VDC; CURRENT: 100 MA; CONTACT ARRANGEMENT: 1NO 1NC; CONNECTION: 2 WIRE; APPLICATION: BLADE; MANUF P/N: P4C1B1808C0EA4W-PRX-001; M12 SOCKET; LED INDICATION: M18X80 MM	EA	40		
44	SWITCH, PRESSURE: TYPE: COMPACT MECHANICAL; RANGE: 0-10 BAR; POTENTIAL: 24 VDC; CURRENT: 5-50 A; ACTION: SPST; CONNECTION: BOTTOM 10 MM; CONTACT ARRANGEMENT: 1NC; DIMENSIONS: WD 26 X HT 64 X DP 18 MM; APPLICATION: HYDROGEN PLANT; ENCLOSURE RATING: IP65; MANUF P/N: APS-6D-5; WORKING MEDIUM: WATER; MAX WORKING PRESSURE: 10 BAR; SET PRESSURE RANGE: 1 TO 6 BAR; LEAD WIRE LENGTH: 5 M; SOLE SOURCE APPROVED: ENER BLUE AND EXPIRES ON: 30/07/20	EA	10		
45	SWITCH: TYPE: BELT ALIGNMENT; POTENTIAL: 24 VDC; CURRENT: 1 A; CONTACT ARRANGEMENT: 1NC; ACTION: SPST; APPLICATION: CONVEYOR BELT; MODEL NO: 20-39	EA	20		
46	SWITCH, SENSITIVE: ACTUATOR STYLE: ELECTRONIC; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 100-277 VAC; CURRENT: 20 A; APPLICATION: LIGHTING CONTROL; SPECIFICATION: ES806; MANUF P/N: UVPP	EA	50		

ESKOM HOLDINGS SOC LTD

CONTRACT NUMBER _____

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Item No.	Description	Unit	Quantity	Rate	Amount
47	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 5 A; ACTION: SP; ACTUATOR: MECHANICAL ARM; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: GENERAL PURPOSE; POWER: 250 VAC; CONTACT RATING: 250 VAC 5 A; DIMENSIONS: WD 13 X LG 25 MM; APPLICATION: ACTUATOR CONTROL; ENCLOSURE RATING: OPEN; CLASSIFICATION: EXPLOSION PROOF; SPECIFICATION: IEC 60364; MANUF P/N: 558.0; MODEL NO: 8068/2; SOLE SOURCE APPROVED AVC (ACTUATORS VALVES AND CONTROLS) VENDOR NO: 11001464 AND WILL EXPIRE IN 03/08/20	EA	20		
48	SWITCH, PRESSURE: TYPE: MEASUREMENT; RANGE: 1000 PSI; POTENTIAL: 125-250 V; CURRENT: 11 A; ACTION: SPDT; CONNECTION: 1/4 IN-NPT; CONTACT ARRANGEMENT: NO; ENCLOSURE RATING: METAL; SUPPL P/N: 115P1S2654	EA	20		
49	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 3 A; ACTION: (2) SPDT; ACTUATOR: PNEUMATIC; CONTACT ARRANGEMENT: 2NO; ENCLOSURE: IP 67/NEMA 4/4X; POWER: 250 VAC; DIMENSIONS: WD 80 X HT 30 MM; APPLICATION: TURBINE DRAINS; WEATHERPROOF; IP 67/NEMA 4/4X; TEMPERATURE -20 DEGREE CELCIUS TO 80 DEGREE CELCIUS; CONDUCT ENTRIES; 2 X M20; 8 TERMINAL STRIP POINTS; HOUSING: DIE CAST ALUMINIUM & 316 STAINLESS STEEL; EXTERNAL INDICATOR : POLYCARBONATE; SHAFT: STAINLESS STEEL; SERIAL NUMBER: BE45-220M03	EA	70		
50	SWITCH, SENSITIVE: ACTUATOR STYLE: SNAP ACTION; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 400 VAC; CURRENT: 3 A; POWER: 1200 W; ACTUATOR QUANTITY: 1; BODY STYLE: 3SE4206; MOUNT: SCREW; APPLICATION: INTERLOCKING; SPECIFICATION: IEC 60947-5-1; SUPPL P/N: 804-6231	EA	100		
51	SWITCH, FLOW: MATERIAL: BRS/PLASTIC; POTENTIAL: 220 VAC; CURRENT: 0.1 A; RANGE: 13-18 L/MIN; 25 BAR; ACTION: SPDT; CONNECTION: 1 IN-FNPT; ENCLOSURE: IP65; DIMENSIONS: ID 25 X LG 39.5 X THK 128 MM; ENCLOSURE RATING: PLASTIC; REFERENCE NO: UM25MV; BORE 25MM; MICROSWITCH POWER RATING; IN LWE HOUSING; WITH BRS COUPLING	EA	10		

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Item No.	Description	Unit	Quantity	Rate	Amount
52	SWITCH, LIMIT: ACTION: DPST; ACTUATOR: LEVER; CONTACT ARRANGEMENT: 2NC; REFERENCE NO: 47441-009, UNK9870, UNK; FOR USE ON SOOTBLOWERS	EA	30		
53	FLOAT: TYPE: LEVEL SWITCH; DIMENSIONS: DIA 69 X LG 225 MM; MATERIAL: STAINLESS STEEL; ASSY F67	EA	20		
54	PROBE: TYPE: INDUCTIVE SENSOR; DIAMETER: 12 MM; LENGTH: 60 MM; RATING: 0-16 MM; CABLE LENGTH: 2 M; MATERIAL: STEEL; SUPPL P/N: IE5238; EFECTOR MISSING PULSE DETECTOR; 36 VDC; 1:20 0 MA	EA	30		
55	SWITCH: TYPE: ALIGNMENT; POTENTIAL: 600 V; CURRENT: 20 A; CONTACT ARRANGEMENT: 1NO; ACTION: SPDT; CONTACT RATING: 20 A; MOUNT: BASE PLATE; APPLICATION: MILL FEEDER BELT MISALIGNMENT; MANUF P/N: W-BAS - 036 - 086 - 01; SWITCH MUST BE DELIVERED WITH FILLED DIMENSIONAL CHECKSHEET AND EQUIPMENT TEST CERTIFICATE; SERIAL NO: 9007 FTUB 4	EA	10		
56	PUSH BUTTON: TYPE: EMERGENCY; OEM P/N: 233E; CONTACT BLOCK MOUNTING FOR CONTROL OIL PUMP VALVE OPERATION; PROVIDE BOTH PUSH AND THE 3 MODULE CLIP THAT HOLD THE BUTTON	EA	20		
57	TRANSDUCER: TYPE: TWO WIRE; INPUT: 0-100 BAR; OUTPUT: 4-20 MA; POWER SOURCE: 10-30 VDC; MANUF P/N: PCS 14220641; 2 WIRE AT 10-30 VDC; ACCURACY 0.5 PERCENT OF SPAN 1/4 NPT; SEALING: WITHOUT; WETTED PARTS: STAINLESS STEEL, I5-3 STANDARD	EA	20		
58	SAFETY FILE (FIXED)	ANNUAL	1		
59	SAFETY FILE (TIME RELATED)	ANNUAL	4		

The total of the Prices

PART 3: SCOPE OF WORK

Document reference	Title	No of pages
	This cover page	1
C3.1	<i>Purchaser's</i> Goods Information	13
C3.2	<i>Supplier's</i> Goods Information	1
	Total number of pages	15

C3.1: PURCHASER'S GOODS INFORMATION

1 Overview and purpose of the goods and services

Supply and Delivery of Electrical Limit, Pressure Switches & Proximity Switches as and when requires at Arnot Power Station for a period of Five (5) years

2 Specification and description of the goods

20	Material	Description	Unit	Quantity
1	120205	SWITCH, TOGGLE: POTENTIAL: 250 V; CURRENT: 5 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NC; REFERENCE NO: 1602; MOUNT: FLUSH WALL; TYPE: LIGHT; 2 WAY	EA	20
2	121649	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 10 MM; POTENTIAL: 7-9 VDC; CURRENT: 20MA; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: NI10-G18-Y1	EA	20
3	121666	SWITCH, PRESSURE: TYPE: MILL LUBE OIL; RANGE: 15-100 BAR; POTENTIAL: 250 V; CURRENT: 4 A; CONNECTION: FLANGE; ENCLOSURE RATING: IP65; REFERENCE NO: X1T4000-10; OEM: BARKSDALE	EA	10
4	121775	SWITCH, FLOW: MATERIAL: BRS/SS; POTENTIAL: 220 VAC; RANGE: 0-1600 KPA; ACTION: SPDT; PIPE CONNECTION: BSP 1 IN; REFERENCE NO: F61TB- 9100; SUPPL P/N: EGE SN450/2-A4-WR2; BOTTOM ENTRY; USED ON THE MAIN ASH PUMP INTERLOCK SYSTEMS; PROBE LENGTH 80MM	EA	20
5	121802	SWITCH, LIMIT: POTENTIAL: 600 VAC; CURRENT: 15 A; ACTION: SPDT; ACTUATOR: WIRE; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: WD 102 X LG 445 X HT 140 MM; SUPPL P/N: 53197; REFERENCE NO: C7-53198; AFU0333-11; BELT TRIP, DOUBLE END	EA	30

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

6	121803	SWITCH, PUSHBUTTON: COLOR: RED; ELECTRICAL RATING: 500 V AC/DC 5A; ACTION: DPST; CONTACT ARRANGEMENT: 2NC; MOUNT: PANEL FLUSH; REFERENCE NO: 10250T102; 90006; CONTACT BLOCK	EA	70
7	121854	SWITCH, TOGGLE: POTENTIAL: 250 VAC; CURRENT: 15 A; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: 1701-15; TYPE: LIGHT; FLUSH WALL MOUNT; WITH 2 X 4 COVER; SINGLE LEVER	EA	30
8	122394	SWITCH, SENSITIVE: ACTUATOR STYLE: PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250 V; CURRENT: 15 A; BODY STYLE: MICRO; REFERENCE NO: T10-12BS2; CODE 50; ACTION SPDT	EA	10
9	122395	SWITCH, SENSITIVE: ACTUATOR STYLE: PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250 VAC; CURRENT: 15 A; BODY STYLE: MICRO; SUPPL P/N: B400; REFERENCE NO: R173P4; 20; ACTION: SPDT	EA	10
10	122397	SWITCH, SENSITIVE: ACTUATOR STYLE: LEVER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250 VAC; CURRENT: 15 A; BODY STYLE: MICRO; REFERENCE NO: BZRW80; ACTION: SPDT	EA	10
11	122400	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: 3; POTENTIAL: 550 VAC; CURRENT: 16 A; CONTACT CONFIGURATION: 0/1/2; TYPE: ROTARY; REFERENCE NO: C20A401F093; 3 POLE; PANEL MOUNTED; REVERSING OFF POSITION; 380V	EA	10
12	122409	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: 7; POTENTIAL: 600 V; CURRENT: 16 A; CONTACT CONFIGURATION: OFF; 1; 2; 3; 4; 5; 6; CONTACT ARRANGEMENT: 6+6 CONNECTIONS; TYPE: ROTARY; ACTION: 3 PHASE; APPLICATION: ELECTRIC STOVE; DIMENSIONS: SHAFT 6 MM; REFERENCE NO: SRP116XL; 6 SEGMENT; 10 HP; 3PH WITH FACE PLATE; POSITIONS: OFF, 1,2, 3,4,5,6; SANDTON BRAND	EA	10
13	122434	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 17.25-207 KPA; 2.5-30 PSI; POTENTIAL: 250 V; CURRENT: 5 A; ACTION: SPDT; CONNECTION: 1/8 IN-FNPT; CONTACT ARRANGEMENT: 2NO 2NC; MODEL NO: D42 0B	EA	10

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

14	122437	SWITCH, PUSHBUTTON: COLOR: RED; ACTION: DPST; CONTACT ARRANGEMENT: 2NO; MOUNT: WALL; EMERGENCY STOP; AUTO STOP IP 65; LIST NUMBER 91176; CUTTER HAMER	EA	10
15	122441	SWITCH, SENSITIVE: ACTUATOR STYLE: PLUNGER; CONTACT ARRANGEMENT: 2NO 2NC; POTENTIAL: 230 VAC; CURRENT: 0.3 A; ACTUATOR QUANTITY: 1; BODY STYLE: MICRO; REFERENCE NO: 9007C03; ACTION: DPDT; ACTUATOR; PF MILLS; FOR SQ D PRESSURE SWITCHES	EA	10
16	122444	SWITCH, LIMIT: POTENTIAL: 240 V; CURRENT: 3 A; ACTION: 2P; ACTUATOR: SPRING RETURN ROD LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: AL/PLASTIC; POWER: 720 W; DIMENSIONS: WD 55 X LG 40 X DP 280 MM; ENCLOSURE RATING: IP67; MANUF P/N: XCKS159H29; CONTACT TYPE SNAP ACTION, MIN OPERATING TEMP -25 DEG C, MOUNTING VERTICAL, MAX OPERATING TEMP 70 DEG C	EA	120
17	122448	SWITCH, LIMIT: POTENTIAL: 220 VDC; ACTION: SPDT; ACTUATOR: ROLLER PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; SUPPL P/N: 2P3100-165; TSR461-122Y; REFERENCE NO: 7PIN; COMPLETE, WITH PLUNGER "R", 7 PIN, SOCKET MALE AND FEMALE, NE NO FORWARD, NC NO REVERSE	EA	10
18	122475	SWITCH, FLOW: MATERIAL: PADDLE SS; POTENTIAL: 240 VAC; CURRENT: 37 A; RANGE: 150 LB; 300 DEG C; ACTION: DPDT; CONNECTION: 1 IN-FNPT; ENCLOSURE: NEMO TYPE 1 (IP 21); PIPE CONNECTION: 1 IN-NPT; MODEL NO: FS 4 3T1-1 INCH; REFERENCE NO: FS43T	EA	10
19	122476	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 98 MM; POTENTIAL: 120/240/480/600 VAC; CURRENT: 120 VAC 10 A; 24 VDC 3A; ACTION: DPDT; CONTACT ARRANGEMENT: 2NO 2NC; DIMENSIONS: SQ 38 X LG 124 MM; CONNECTION: 4 WIRE LEAD; APPLICATION: DAMPERS; CLASSIFICATION: HIGH TEMPERATURE AREA; SUPPL P/N: 81-20156-A3; MODEL NO: 81; REFERENCE NO: 020103; TYPE DPDT-BB; (NO)(NC); LEVERLESS HEAVY PILOT DUTY; 1 COMMON POINT AND EARTH; 18 GAUGE (DIAMETER 110 INCH) POTTED-IN PVC INSULATED AWM RATED AT 105 DEG C; 72 INCH (1829 MM); WITH TARGET	EA	20

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

		MAGNET UP TO 3-7/8 INCH MAX END SENSING; SIZE: 1-1/2 INCH (38 MM) SQUARE X 4-7/8 INCH (124 MM) OVERALL SUBTRACT 1/2 INCH (13 MM) FROM LENGTH FOR BOTTOM CONDUIT; CONDUIT OUTLET BOTTOM OF ENCLOSURE		
20	122477	MAGNET: TYPE: UTILITY; DIMENSIONS: WD 32 X LG 37 X HT 26 MM; MATERIAL: STL; REFERENCE NO: 414000; GO SYSTEM, COMPLETE WITH ALUMINIUM HOUSING	EA	20
21	122482	SWITCH, TOGGLE: POTENTIAL: 250 V; CURRENT: 15 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO; TYPE: LIGHT; WALL MOUNT; FITTED IN A 75 MM X 75 MM BOX; LITE-MASTER; PRODUCT CODE 62615; 1 WAY	EA	10
22	123081	SWITCH, LIMIT: POTENTIAL: 600 VAC; CURRENT: 5 A; ACTUATOR: FRICTION WHEEL; CONTACT ARRANGEMENT: 2NO 2NC; ENCLOSURE RATING: GENERAL PURPOSE; SUPPL P/N: CSK77-1797; CENTRIFUGAL, 230 RPM	EA	30
23	123287	SWITCH, LEVEL: METHOD OF ACTUATION: FLOAT; RANGE: -0 TO 50 DEG C; POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; CABLE LENGTH: 13 M; ENCLOSURE: PLASTIC; SUPPL P/N: ENH10; PEAR BALL, MERCURY FILLED FLOAT	EA	100
24	123562	SWITCH, LIMIT: POTENTIAL: 380 VAC; CURRENT: 10 A; ACTION: SPST; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; REFERENCE NO: XCKM115; 3; XCK M115; FOR BIOLOGICAL DOOR AT LEVEL +0.00; GENERAL PURPOSE ENCLOSURE	EA	10
25	136365	SWITCH, PUSHBUTTON: COLOR: RED; MOUNT: PANEL FLUSH; APPLICATION: RELAY PANEL; REFERENCE NO: 9100 T 102; 91000T102; O/A: DIMS LG 32MM X O/ DIA 34MM; LIST 900 21 C/H	EA	20
26	136366	SWITCH, PUSHBUTTON: COLOR: BLACK; ELECTRICAL RATING: 240 V 4 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: PANEL; SIZE: DIA 34 X WD 32 MM; APPLICATION: RELAY PANEL; REFERENCE NO: 90020; 91000T101; INDICATING; COMPLETE WITH CONTACT BLOCK; CONTACT REF NO: 90001; CUTLER HAMMER	EA	30
27	142093	SWITCH, DISCONNECT: TYPE: STOVE ISOLATOR; POTENTIAL: 250 V; CURRENT: 50 A; REFERENCE NO: LM5150	EA	30
28	172738	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-400 KPA; CONNECTION: 1/4 IN-FNPT; MODEL NO: B450S; STAINLESS STEEL DIAPHRAGM AND VITON O RING	EA	60

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

29	172741	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-100 KPA; MANUF P/N: D420V; MODEL NO: B420V	EA	10
30	172744	SWITCH, PRESSURE: TYPE: SNAP; RANGE: 0-700 KPA; CONNECTION: 1/4 IN-FNPT; SUPPL P/N: B450S; STAINLESS STEEL DIAPHRAGM AND VITON O-RING	EA	30
31	172746	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-1400 KPA; CONNECTION: 1/4 IN-FNPT; MODEL NO: B450S; STAINLESS STEEL DIAPHRAGM AND VITON O RING	EA	120
32	172747	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-700 KPA; CONNECTION: 1/4 IN-FNPT; MODEL NO: B724S; STAINLESS STEEL DIAPHRAGM AND VITON O RING, EXPLOSION PROOF	EA	30
33	172793	SWITCH, LEVEL: RANGE: 0-10 BAR; 0-400 DEG C; MODEL NO: 5P-04-041; MODULE 5P; FLANGE MODULE 04; FLOAT MODULE 041; FORM C FLANGE FACING	EA	25
34	172797	SWITCH, LEVEL: RANGE: 0-330 DEG C; ENCLOSURE RATING: IP65; CONTACT RATING: 250 VAC 5 A; REFERENCE NO: A-04-041; MODULE A; FLANGE MODULE 04; FLOAT MODULE 041; FORM C FLANGE FACING	EA	10
35	172798	SWITCH, LEVEL: METHOD OF ACTUATION: FLOAT; RANGE: 0-330 DEG C; POTENTIAL: 250 VAC; CURRENT: 5 A; ENCLOSURE: IP65; MODEL NO: A01041; SWITCH MODULE A; FLANGE MODULE 01; FLOAT MODULE 041; FORM C FLANGE FACING	EA	10
36	172799	SWITCH, LEVEL: RANGE: 0-400 DEG C; ENCLOSURE RATING: IP65; CONTACT RATING: 250 VAC 5 A; REFERENCE NO: HA235RL01E11003; MODULE HA; FLANGE MODULE 235RL01E110; FLOAT MODULE 03; FLANGE FACING: RAISED	EA	10
37	172830	SWITCH, PROXIMITY: TYPE: SPEED; POTENTIAL: 5-36 VDC; CURRENT: 200 MA; SUPPL P/N: IE5238IEA2002-FROG; REFERENCE NO: T95; FREQUENCY TO CURRENT CONVERTER, PICKUP, RANGE 0 - 20 RPM	EA	60
38	175733	SWITCH, PROXIMITY: MANUF P/N: IG5719 IGE2008; REFERENCE NO: FRKG	EA	20
39	219582	SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 690 V; CURRENT: 200 A; SUPPL P/N: D062322242; LOADBREAK; INSULATION 1KV; TERMINAL CAPACITY 30 X 6MM2; NUMBER OF POLES 3; DOUBLE KNIFE CONTACTS, PERFORMANCE REQUIREMENTS;	EA	10

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

		FUSE COMPLETELY DISCONNECTED IN OFF POSITION; POSITIVE CONTACT INDICATION; QUICK MAKE AND BREAK MECHANISM		
40	250341	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 3 MM; POTENTIAL: 240 VAC; 48 VDC; CURRENT: 2 A AC; 1.25 A DC; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: DIA 16.7 MM; CONNECTION: CABLE 18 GAUGE; APPLICATION: SFPT DRAIN VALVE; CLASSIFICATION: HIGH TEMPERATURE AREA; SUPPL P/N: 74-13528-B2; MODEL NO: 74; GO SWITCH WITH STAINLESS STEEL CASING; DIA 16 X 70 MM; LONG WITH 5/8 INCH - 18 UNF X 1 7/8 INCH 48 MM THREADS; NO CONDUIT HUB; LOCK NUTS FOR LIMIT TO BE INCLUDED; GO SWITCH TOPWARX; DIAMETER: 250 INCH POTTED IN PVC CABLE RATED AT 80 DEG CB2 36 INCH (914 MM); SENSING APPROXIMATELY 100 INCH END SENSING 2000 PSI	EA	120
41	250342	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 1 MM; POTENTIAL: 240 VAC; 48 VDC; CURRENT: 2 A AC; 1.25 A DC; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 120 VAC 4 A; 24 VDC 3 A; DIMENSIONS: DIA 9.5 MM; APPLICATION: SFPT DRAIN VALVE; CLASSIFICATION: HIGH TEMPERATURE AREA; SUPPL P/N: 72-16528-B3; MODEL NO: 72; POTENTIAL 48 VDC; CURRENT 1.25 A DC; GO SWITCH WITH STAINLESS STEEL CASING; CABLE 18 GAUGE (250 INCH DIAMETER) PVC CABLE RATED AT 80 DEG C-B3 72 INCH (1829 MM); APPROXIMATELY 040 INCH END SENSING; DIAMETER: 10 X 86 MM LONG WITH 3/8 INCH 24 UNF X 1-1/2 INCH (38 MM) THREADS; NO CONDUIT HUB; LOCK NUTS FOR LIMIT TO BE INCLUDED	EA	100
42	251103	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 5-8 MM; POTENTIAL: 10-30 VDC; CURRENT: 100 MA; CONTACT ARRANGEMENT: NO, SHIELDED; DIMENSIONS: DIA 18 X LG 80 MM; CONNECTION: 2 WIRE; SUPPL P/N: W-SSN-018-01; B08185 0C5; MOUNT NUT; PROBE DIAMETER 18 MM, M12 OUTPUT	EA	20
43	253863	SWITCH, PROXIMITY: TYPE: KNIFE GATE; SENSING RANGE: 8 MM; POTENTIAL: 10-60 VDC; CURRENT: 100 MA; CONTACT ARRANGEMENT: 1NO 1NC; CONNECTION: 2 WIRE; APPLICATION: BLADE; MANUF P/N: P4C1B1808C0EA4W-PRX-001; M12 SOCKET; LED INDICATION: M18X80 MM	EA	40
44	585598	SWITCH, PRESSURE: TYPE: COMPACT	EA	10

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

		MECHANICAL; RANGE: 0-10 BAR; POTENTIAL: 24 VDC; CURRENT: 5-50 A; ACTION: SPST; CONNECTION: BOTTOM 10 MM; CONTACT ARRANGEMENT: 1NC; DIMENSIONS: WD 26 X HT 64 X DP 18 MM; APPLICATION: HYDROGEN PLANT; ENCLOSURE RATING: IP65; MANUF P/N: APS-6D-5; WORKING MEDIUM: WATER; MAX WORKING PRESSURE: 10 BAR; SET PRESSURE RANGE: 1 TO 6 BAR; LEAD WIRE LENGTH: 5 M; SOLE SOURCE APPROVED: ENER BLUE AND EXPIRES ON: 30/07/20		
45	593555	SWITCH: TYPE: BELT ALIGNMENT; POTENTIAL: 24 VDC; CURRENT: 1 A; CONTACT ARRANGEMENT: 1NC; ACTION: SPST; APPLICATION: CONVEYOR BELT; MODEL NO: 20-39	EA	20
46	596692	SWITCH, SENSITIVE: ACTUATOR STYLE: ELECTRONIC; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 100-277 VAC; CURRENT: 20 A; APPLICATION: LIGHTING CONTROL; SPECIFICATION: ES806; MANUF P/N: UVPP	EA	50
47	605064	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 5 A; ACTION: SP; ACTUATOR: MECHANICAL ARM; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: GENERAL PURPOSE; POWER: 250 VAC; CONTACT RATING: 250 VAC 5 A; DIMENSIONS: WD 13 X LG 25 MM; APPLICATION: ACTUATOR CONTROL; ENCLOSURE RATING: OPEN; CLASSIFICATION: EXPLOSION PROOF; SPECIFICATION: IEC 60364; MANUF P/N: 558.0; MODEL NO: 8068/2; SOLE SOURCE APPROVED AVC (ACTUATORS VALVES AND CONTROLS) VENDOR NO: 11001464 AND WILL EXPIRE IN 03/08/20	EA	20
48	662472	SWITCH, PRESSURE: TYPE: MEASUREMENT; RANGE: 1000 PSI; POTENTIAL: 125-250 V; CURRENT: 11 A; ACTION: SPDT; CONNECTION: 1/4 IN-NPT; CONTACT ARRANGEMENT: NO; ENCLOSURE RATING: METAL; SUPPL P/N: 115P1S2654	EA	20
49	666039	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 3 A; ACTION: (2) SPDT; ACTUATOR: PNEUMATIC; CONTACT ARRANGEMENT: 2NO; ENCLOSURE: IP 67/NEMA 4/4X; POWER: 250 VAC; DIMENSIONS: WD 80 X HT 30 MM; APPLICATION: TURBINE DRAINS; WEATHERPROOF; IP 67/NEMA 4/4X; TEMPERATURE -20 DEGREE CELCIUS TO 80 DEGREE CELCIUS; CONDUCT ENTRIES; 2 X M20; 8 TERMINAL STRIP POINTS; HOUSING: DIE CAST ALUMINIUM & 316 STAINLESS STEEL; EXTERNAL INDICATOR : POLYCARBONATE; SHAFT: STAINLESS STEEL; SERIAL NUMBER: BE45-220M03	EA	70

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

50	667399	SWITCH, SENSITIVE: ACTUATOR STYLE: SNAP ACTION; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 400 VAC; CURRENT: 3 A; POWER: 1200 W; ACTUATOR QUANTITY: 1; BODY STYLE: 3SE4206; MOUNT: SCREW; APPLICATION: INTERLOCKING; SPECIFICATION: IEC 60947-5-1; SUPPL P/N: 804-6231	EA	100
51	121623	SWITCH, FLOW: MATERIAL: BRS/PLASTIC; POTENTIAL: 220 VAC; CURRENT: 0.1 A; RANGE: 13-18 L/MIN; 25 BAR; ACTION: SPDT; CONNECTION: 1 IN-FNPT; ENCLOSURE: IP65; DIMENSIONS: ID 25 X LG 39.5 X THK 128 MM; ENCLOSURE RATING: PLASTIC; REFERENCE NO: UM25MV; BORE 25MM; MICROSWITCH POWER RATING; IN LWE HOUSING; WITH BRS COUPLING	EA	10
52	122385	SWITCH, LIMIT: ACTION: DPST; ACTUATOR: LEVER; CONTACT ARRANGEMENT: 2NC; REFERENCE NO: 47441-009, UNK9870, UNK; FOR USE ON SOOTBLOWERS	EA	30
53	122411	FLOAT: TYPE: LEVEL SWITCH; DIMENSIONS: DIA 69 X LG 225 MM; MATERIAL: STAINLESS STEEL; ASSY F67	EA	20
54	163218	PROBE: TYPE: INDUCTIVE SENSOR; DIAMETER: 12 MM; LENGTH: 60 MM; RATING: 0-16 MM; CABLE LENGTH: 2 M; MATERIAL: STEEL; SUPPL P/N: IE5238; EFECTOR MISSING PULSE DETECTOR; 36 VDC; 1:20 0 MA	EA	30
55	555710	SWITCH: TYPE: ALIGNMENT; POTENTIAL: 600 V; CURRENT: 20 A; CONTACT ARRANGEMENT: 1NO; ACTION: SPDT; CONTACT RATING: 20 A; MOUNT: BASE PLATE; APPLICATION: MILL FEEDER BELT MISALIGNMENT; MANUF P/N: W-BAS - 036 - 086 - 01; SWITCH MUST BE DELIVERED WITH FILLED DIMENSIONAL CHECKSHEET AND EQUIPMENT TEST CERTIFICATE; SERIAL NO: 9007 FTUB 4	EA	10
56	625590	PUSH BUTTON: TYPE: EMERGENCY; OEM P/N: 233E; CONTACT BLOCK MOUNTING FOR CONTROL OIL PUMP VALVE OPERATION; PROVIDE BOTH PUSH AND THE 3 MODULE CLIP THAT HOLD THE BUTTON	EA	20
57	669626	TRANSDUCER: TYPE: TWO WIRE; INPUT: 0-100 BAR; OUTPUT: 4-20 MA; POWER SOURCE: 10-30 VDC; MANUF P/N: PCS 14220641; 2 WIRE AT 10-30 VDC; ACCURACY 0.5 PERCENT OF SPAN 1/4 NPT; SEALING: WITHOUT; WETTED PARTS: STAINLESS STEEL, I5-3 STANDARD	EA	20

2.1 Purchaser's design

Not Applicable

2.2 Procedure for submission and acceptance of Supplier's design

The Supplier must supply as per the item description and as and when required to do so

2.3 Other requirements of the Supplier's design

Not applicable

2.4 Use of Supplier's design

Not applicable

2.5 Manufacture & fabrication

All materials to comply to Eskom standards

2.6 Factory acceptance testing (FAT)

The Purchaser may request FAT and material inspection

2.7 Other tests and inspections and commissioning in place of use

Quality control checks documentation is in place at Arnot Power Station at the Main Store (Receiving)

2.8 Operating manuals and maintenance schedules

Not applicable

3 Supply Requirements

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

4 Specification of the services to be provided

All materials to comply with Eskom standards.

5 Constraints on how the Supplier Provides the Goods

5.1 Programming constraints

Not applicable

5.2 Work to be done by the Delivery Date

All goods are to be delivered as per the quantity required and quality check to be done after every delivery

5.3 Marking the goods

Not applicable

5.4 Constraints at the delivery place and place of use

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

The Goods must be delivered at Arnot Power Station Stores between Monday and Thursday at 09:00 to 15:00. On Friday, between 9:00 and 12:00

5.5 Cooperating with Others

The Supplier must fully co-operate with the Purchaser’s team during off-loading at the project site

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

Not applicable

5.7 Management meetings

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

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk register and compensation events	On request by Purchaser	Arnot Power Station/ MS Teams	Purchaser and Supplier representative
Overall contract progress and feedback	On request by Purchaser or Supplier	Arnot Power Station/ MS Teams	Purchaser and Supplier representative

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

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the conditions of contract to carry out such actions or instructions.

5.8 Documentation control

All documentation from the Supplier must be provided in hard copy and must also be emailed to the Supply Manager, as per the communication process agreed after contract award.

5.9 Health and safety risk management

The Supplier shall comply with the health and safety requirements:

- Control of noise is through wearing hearing protection
- Dust, dust suppression or as the last resort issue dust mask
- Waste, put waste in the correct waste bin
- Water to be conserve, use as little as possible
- Adhere to all Eskom lifesaving rules

- A. Road Safety
 - a. Speed limit: 40km/h
 - b. By passing Speed humps not allowed
 - c. Transporting People at the back of the bakkie is not allowed
 - d. Buckle up always
 - e. Park only at demarcated areas

- B. Sanitation
 - a. Toilets for both genders are available at the plant

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

C. Emergency

- a. The emergency number for Arnot is 013 297 9184 Pax:5184
- b. Emergency alarms are tested every Wednesday 10H00

D. Access

- a. Before access can be granted the following must be met:
- b. SHE Induction attended.

COMPLIANCE TO 5 IDENTIFIED CARDINAL RULES:

Rule1: Open, Isolate, Test, Earth, Bond, and/or insulate before touch
(That is, any plant operating above 1 000 V)

No person may work on any electrical network unless:

- He/she is trained and authorised as competent for the task to be done.
- A pre-task risk assessment to identify all risks and hazards has been conducted prior to any work commencing.
- An equipotential zone is created for each worker on the job site by earthing, bonding, and/or insulating according to approved procedures.
- All conducting material is connected, all staff on site wear electrical safety shoes, and insulating techniques are applied according to standards; and
- The authorised person (team leader) has certified and shown all team members that the apparatus is safe to work on.

Rule 2: Hook up on heights

Working at height is defined as any work performed above a stable work surface or where a person puts himself/herself in a position where he/she exposes himself/herself to a fall from or into.

No person may work at height where there is a risk of falling unless:

- A pre-task risk assessment to identify all risks and hazards has been conducted prior to commencing any work at height.
- He/she is appropriately trained.
- He/she is appropriately secured during ascending and descending and
- He/she is using an approved fall arrest system where applicable.

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

- 1 No person is allowed to work under the influence of drugs and alcohol.
- 2 "Under the influence" means the use of alcohol, drugs, and/or a controlled substance to the extent that
 - 1 He individual's faculties are in any way impaired by the consumption or use of the substances; or
 - 2 The individual is unable to perform in a safe, productive manner; or
 - 3 The individual has a level of any such substance in his/her body that corresponds to or exceeds accepted medical/legal standards; or
 - 4 The individual has a level of alcohol in his/her body that is greater than 0.02% blood alcohol concentration.

This includes any level of an illegal substance in the body, irrespective of when the substance was used.

Rule 5: Ensure that you have a permit to work

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Where an authorisation limitation exists, no person shall work without the required Permit to Work (PTW), which is governed by the Plant Safety Regulations, Operating Regulations for High Voltage Systems (ORHVS) etc.

No plant is to be returned to service without the cancellation of all permits on that plant in accordance with procedure.

NB: In the case of live work, a "live work declaration form" is to be completed by the authorised person who is the person responsible for the safe execution of work according to relevant standards and procedures. Please ensure that these rules are understood and communicated with the urgency that they deserve. If any of these rules are unclear or the consequences not understood, please do not hesitate to discuss it with Eskom.

We would like to continue our current partnership and therefore urge your support in the implementation and upholding of these rules.

5.10 Environmental constraints and management

The Supplier shall comply with the health and safety requirements contained the Purchaser's SHE Specification.

5.11 Quality

Quality check sheet should be in place.

The Supplier will be expected to comply with Supplier Quality Management Specification 240-105658000 (previously called QM58) and ISO: 9001 requirements and other Eskom Holdings SOC Limited's Standards and specifications.

5.12 Invoicing and payment

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

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

- Name and address of the *Supplier* and the *Supply Manager*;
- The contract number and title;
- *Supplier's* VAT registration number;
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- (add other as required)

Detailed tax invoice, clearly showing: Eskom Holdings SOC LTD Electronic copy to Finance Shared Services Megawatt Park
--

5.13 Insurance provided by the Purchaser

Refer to Annexure B – Insurance to be provided by the Purchaser

5.14 Contract change management

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

Clause 6 Compensation events of the NEC3 Supply Contract will apply to all changes in this contract.

5.15 Provision of bonds and guarantees

Not applicable

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

All records and quality documentation must be provided in hard copy and must be electronically emailed to the Supply manager

6 Procurement

6.1 Subcontracting

6.1.1 Preferred subcontractors

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

6.1.2 Limitations on subcontracting

Not applicable

6.1.3 Spares and consumables

Not applicable

6.1.4 Other requirements related to procurement

Not applicable

6.1.5 Cataloguing requirements by the *Supplier*

Not applicable

7 List of drawings

7.1 Drawings issued by the *Purchase*

Not Applicable

CONTRACT TITLE: SUPPLY AND DELIVERY OF SUPPLY AND DELIVERY OF ALIGNMENT SWITCHES, ELECTRICAL SWITCHES, FLOW SWITCHES, LEVEL SWITCHES, LIMIT SWITCHES, PRESSURE SWITCHES, SELECTOR SWITCHES, TOGGLES SWITCHES, PROXIMITY SENSORS AND PUSH BUTTONS AS AND WHEN REQUIRED AT ARNOT POWER STATION FOR A PERIOD OF FIVE (5) YEARS

C3.2 SUPPLIERS GOODS INFORMATION

THIS SECTION OF THE GOODS INFORMATION WILL ALWAYS BE CONTRACT SPECIFIC DEPENDING ON THE NATURE OF THE GOODS AND SERVICES. IT IS MOST LIKELY TO BE REQUIRED FOR SUPPLY CONTRACTS WHERE THE TENDERING SUPPLIER WILL HAVE PROPOSED SPECIFICATIONS AND SCHEDULES FOR THE GOODS AND SERVICES, WHICH ONCE ACCEPTED BY THE PURCHASER PRIOR TO AWARD OF CONTRACT NOW BECOME OBLIGATIONS OF THE SUPPLIER PER CORE CLAUSE 20.1.

THIS SECTION COULD ALSO BE COMPILED AS A SEPARATE FILE.