

	<b>Scope of Work</b>	<b>Arnot Power Station</b>
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Title: **Scope of work for the Supply and Delivery of :**

**Alignment Switches,  
Electrical Switches,  
Flow Switches,  
Level Switches,  
Limit Switch,  
Pressure Switches,  
Selector Switches,  
Toggle Switches,  
Proximity Sensors and  
Push Buttons**

Unique Identifier:

Alternative Reference Number: **N/A**

Area of Applicability: **Arnot Power Station**

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### **CONTROLLED DISCLOSURE**

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## 1. INTRODUCTION

Arnot power station is planning to put in place a supply and deliver service contract with a reputable service provider for the provision of alignment switches, electrical switches, flow switches, level switches, limit switches, pressure switches, selector switches, toggle switches, proximity sensors and push buttons.

The objective is to procure high-quality, reliable push buttons, sensors & switches that meet the specified technical and operational requirements to support maintenance and operational needs of the business.

This supply is critical to ensure the continuous and efficient operation of the power station equipment while minimising downtime due to component failures.

## 2. SUPPORTING CLAUSES

### 2.1 SCOPE

Supply and delivery of alignment, electrical limit, flow, level, push buttons, pressure switches, selector switches, toggle switches & proximity sensors which are designed to effectively operate in demanding high cycle environments on a fixed term contract to Arnot Power Station.

Material No.	Description
120205	SWITCH, TOGGLE: POTENTIAL: 250 V; CURRENT: 5 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NC; REFERENCE NO: 1602; MOUNT: FLUSH WALL; TYPE: LIGHT; 2 WAY
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
121649	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 10 MM; POTENTIAL: 7-9 VDC; CURRENT: 20 MA; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; REFERENCE NO: NI10-G18-Y1
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
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
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
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

### CONTROLLED DISCLOSURE

<b>Material No.</b>	<b>Description</b>
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
122385	SWITCH, LIMIT: ACTION: DPST; ACTUATOR: LEVER; CONTACT ARRANGEMENT: 2NC; REFERENCE NO: 47441-009, UNK9870, UNK; FOR USE ON SOOTBLOWERS
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
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
122397	SWITCH, SENSITIVE: ACTUATOR STYLE: LEVER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 250 VAC; CURRENT: 15 A; BODY STYLE: MICRO; REFERENCE NO: BZRW80; ACTION: SPDT
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
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
122411	FLOAT: TYPE: LEVEL SWITCH; DIMENSIONS: DIA 69 X LG 225 MM; MATERIAL: STAINLESS STEEL; ASSY F67
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
122437	SWITCH, PUSHBUTTON: COLOR: RED; ACTION: DPST; CONTACT ARRANGEMENT: 2NO; MOUNT: WALL; EMERGENCY STOP; AUTO STOP IP 65; LIST NUMBER 91176; CUTTER HAMER
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
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
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

**CONTROLLED DISCLOSURE**

Material No.	Description
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
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 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
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
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
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
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
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
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
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
142093	SWITCH, DISCONNECT: TYPE: STOVE ISOLATOR; POTENTIAL: 250 V; CURRENT: 50 A; REFERENCE NO: LM5150
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
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

**CONTROLLED DISCLOSURE**

<b>Material No.</b>	<b>Description</b>
172741	SWITCH, PRESSURE: TYPE: SNAP ACTION; RANGE: 0-100 KPA; MANUF P/N: D420V; MODEL NO: B420V
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
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
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
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
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
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
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
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
175733	SWITCH, PROXIMITY: MANUF P/N: IG5719 IGE2008; REFERENCE NO: FRKG
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; FUSE COMPLETELY DISCONNECTED IN OFF POSITION; POSITIVE CONTACT INDICATION; QUICK MAKE AND BREAK MECHANISM
222149	SWITCH, PROXIMITY: SENSING RANGE: 1.02 MM; POTENTIAL: 24 VDC; MODEL NO: 72-16528-B3; 70 SERIES, NEEDED FOR AIRHEATER ROTATING STOP INDICATION, RANGE -40 TO 105 DEG C
224393	SENSOR: TYPE: TURBINE SPEED; RANGE: 0.05-20 KHZ; RATING: 10-30 VDC; SUPPL P/N: DSF2210.87STV(5M); OLD S P/N FTG1087.00 S
230092	SENSOR: TYPE: SPEED PROBE; RANGE: 0.05-20 KHZ; RATING: 10-30 VDC; SUPPL P/N: FTG1087.01.SH.STD; FOR SFPT AND MAIN TURBINE,
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

**CONTROLLED DISCLOSURE**

Material No.	Description
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
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
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
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
585598	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
593555	SWITCH: TYPE: BELT ALIGNMENT; POTENTIAL: 24 VDC; CURRENT: 1 A; CONTACT ARRANGEMENT: 1NC; ACTION: SPST; APPLICATION: CONVEYOR BELT; MODEL NO: 20-39
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
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
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

**CONTROLLED DISCLOSURE**

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
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
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
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

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### 2.1.1 Purpose

The purpose for this Scope & Technical Evaluation Criteria is for input into sourcing & delivery of alignment switches, electrical switches, flow switches, level switches, limit switches, pressure switches, selector switches, toggle switches, proximity sensors and push buttons of high quality that will operate in our demanding high cycle environment plant.

### 2.1.2 Applicability

Applicable to Arnot Power station.

## 2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

### 2.2.1 Normative

- [1] SANS 60947-5-1: Low-Voltage Switchgear and Controlgear, Part 5: Control Circuit Devices and Switching Elements, Section 1

## 2.3 DEFINITIONS

Definition	Description
Critical	Refers to equipment whose failure in service would have an appreciable probability of causing loss of availability of generating plant and or of causing unsafe conditions for personnel or both

### 2.3.1 Classification

**Controlled Disclosure:** Controlled Disclosure to external parties (either enforced by law, or discretionary).

## 2.4 ABBREVIATIONS

Abbreviation	Description
QC	Quality Check
SAP	Systems Application Programme

## 2.5 ROLES AND RESPONSIBILITIES

Technical Support Services is responsible for Quality Checks on all delivered goods.

## 2.6 PROCESS FOR MONITORING

Follow materials management goods receipt process for QC

## 2.7 RELATED/SUPPORTING DOCUMENTS

SAP Material Descriptions

### **CONTROLLED DISCLOSURE**

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**Technical Evaluation Criteria**

Technical Evaluation Scoring Criteria / Tender Returnable				
	Technical Aspect / Deliverable	Criteria	Scoring	
1	Confirmation of supply in accordance with the detailed specification provided for the Alignment, Electrical, Flow, Level, Limit, Pressure, Selector, Toggle Switches, Proximity Sensors and Push Buttons	Submission of Data sheets for 10 types specified in the scope	30%	<b>30%</b>
		Submission of Data sheets for 5 types specified in the scope	20%	
		Submission of Data sheets for up to 3 types specified in the scope	10%	
		No submission	0	
2	Confirmation of type & application of the Alignment, Electrical, Flow, Level, Limit, Pressure, Selector, Toggle Switches, Proximity Sensors and Push Buttons	Submit outline drawings for 10 types specified in the scope	30%	<b>30%</b>
		Submit outline drawings for 5 types specified in the scope	15%	
		No submission	0	
3	Product Catalogues for the Alignment, Electrical, Flow, Level, Limit, Pressure, Selector, Toggle Switches, Proximity Sensors and Push Buttons	Submit product catalogues for 10 types specified in the scope	30%	<b>30%</b>
		Submit product catalogues for 5 types specified in the scope	15%	
		No submission	0	
4	Packaging	Submit packaging photographs for 10 types specified in the scope	5%	<b>5%</b>
		No submission	0	
		<b>NB: No loosely supplied goods will be accepted upon delivery at site</b>		
5	Delivery of the Goods	Commitment in the company's letterhead to deliver within the agreed time lines	5%	<b>5%</b>
		No commitment	0	
		<b>NB: A penalty will be charged on all missed commitment dates as per the NEC</b>		
			<b>Total Score</b>	<b>100%</b>
			<b>Threshold</b>	<b>75%</b>