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TENDER FORM

The Chairman – Tender Opening Committee
PNG Power Ltd
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BOROKO 111 NCD
Papua New Guinea
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We (Full name of company).....
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herby tender for the undermentioned goods and services subject to the conditions of tendering and at the prices quoted in the scheduled therein

TENDER No. 18/2019

CLOSING AT 4.00 PM FRIDAY 10TH MAY 2019

**FOR SUPPLY AND DELIVERY OF HIGH VOLTAGE
OPERATING SAFETY EQUIPMENT FOR FIELD
USE FOR A PERIOD OF THREE (3) YEARS -
NATION WIDE.**



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OFFICE OF HEALTH, SAFETY & ENVIRONMENT MANAGEMENT

SUBJECT: CALL FOR TENDER FOR HV VOLTAGE (HV) SAFETY EQUIPMENT

PNG Power Ltd through People & Transformation HSE Division is calling for invitation from any interested and reputable suppliers/entities within PNG and abroad to submit their "Expression of Interest" for the sourcing out, supply and delivery of **High Voltage Operating Equipment** for a period of Three (3) years. Fifty (50) sets of HV Operating Equipment shall be supplied to PNG Power Main Warehouse at Boroko on a Six (6) monthly basis for a period of Three (3) years.

High Voltage Operating Equipment are devices that have been tested and proven safe for a person to perform work on energised/de energised HV conductors, switchgears, power systems while maintaining safe working distances and personnel protection. The HV Operating Equipment includes associated adaptors and universal joints for use by operators to avoid direct contact with HV installations and Personal Protective Equipment (PPE).

1. TERMS OF THIS TENDER

- a) Interested bidders shall submit their Expression of Interest application which shall including;
 - Company Name,
 - Company Profile,
 - Company Registration,
 - Tax Identification Number,
 - Indicate ability to supply all requested quantity on single delivery
 - Indicate ability to supply within lead time
- b) Interested bidders must be able to provide their equipment / item listings as per below PNG Power Ltd's High Voltage Operating Equipment listing below indicating their pricing against the equipment to enable ease during evaluation and analysis of tender.
- c) Supplier equipment listing shall be strictly in compliant to and as per the technical specifications indicated against respective PNG Power Ltd's equipment listing.
- d) This tender is for the supply and delivery of **High Voltage Equipment** as indicated in the table below. The intention is to keep replenishing these stocks into PNG Power Ltd's Main Warehouse at Boroko for our further distribution on a six (6) monthly basis for a period of Three (3) years.
- e) Supply and delivery of the High Voltage Equipment for PNG Power Ltd shall be supplied twenty-one (21) days prior to the next six monthly supply and delivery timing is due into Boroko Main Warehouse Receivable Section. Dispatching of this equipment to other Regional Warehouses Centres will be done by PNG Power Ltd Dispatch & Logistics team.

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Your indications of the pre-requisites together with other documentations are to be submitted for consideration and evaluation prior to the closing of this tender.

2. HIGH VOLTAGE OPERATING EQUIPMENT TECHNICAL SPECIFICATIONS.

	Item	Technical Specifications	Quantity
1	Operating sticks	<p>Operating sticks are made from high-quality foam-filled fibreglass rods. They are used for high-voltage operations, for use with HV testers for testing and proving dead, or applying portable earthing equipment, Multi-purpose application tasks as pole fuse screw insert/removal, U shape LV line lifting, and wood poking checks. They consist of 4 extendable rods using a non-conductive fibreglass button.</p> <p>Features;</p> <ul style="list-style-type: none"> ▪ Electrically and mechanically type- tested to IEC 60855 ▪ Proof-tested during manufacture to 100kV per 300mm ▪ Standard diameter 32mm OD; 39mm OD available on request ▪ Standard lengths 1.2m, 1.8m, 2.4m ▪ High-visibility orange or yellow coloured fibreglass cloth - not painted ▪ Filled with dense foam for good electrical performance ▪ Textured surface for good grip under all conditions ▪ May be supplied smooth for live line tools ▪ Wide range of accessories and adaptors available for use. ▪ With Sunrise head, Fibreglass splice, Universal switching head, carry bag and Removable base cap. 	50 pieces
2	Modiewark Tester	<p>The Modiewark detects the presence of an alternating electric field surrounding a live electric conductor. It is used for proving dead high-voltage AC conductors. It consists of sensing head contains a sensor plate, sensing module, a visual alarm and an audible alarm. It is powered by three standard C-size cells mounted in its handle. The Modiewark is easily fitted to an insulated high-voltage operating stick.</p> <p>Features:</p> <ul style="list-style-type: none"> ▪ Dual indication: visual high-reliability diode lamp and audible buzzer ▪ Non-contacting: can be used for insulated and bare conductors ▪ Switchable voltage ranges from 110V to 330kV AC ▪ Self-testing: built-in circuit checks tester and battery on all voltage ranges ▪ Fail-safe: switches to maximum sensitivity for internal fault on any range ▪ Robust non-conducting high-visibility case ▪ Maintenance-free: standard batteries are easily changed in the field ▪ Universal fitting for attaching operating sticks ▪ Can be used for checking induced voltages by increasing sensitivity 	50 pieces

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		<p>Specifications:</p> <ul style="list-style-type: none"> .Weight inclbatteries.....370g .Length.....230mm .Length of battery compartment.....160mm .Diameter of head.....80mm .Temperature range.....-24°C to + 70°C .Batteries.....3 x C size 	
3	“U” shape LV lifting conductors	<p>Universal fitting one end, stainless steel “U” shape other end. Used with an operating stick fitted with a universal head for lifting L.V. conductors above high vehicles, etc. 250mm (l) 150mm(w) Weight: 312g</p>	50 pieces
4	Wood poking rod	<p>Sunrise head to stainless steel probe. For connecting to foam filled fibreglass operating stick to probe wooden cross arms on energised networks to check for weathering.</p>	50 pieces
5	Pole fuse remover And inserting	<p>Sunrise fitting to pigtail for the removal of primary or pole fuses. Weight: 28g</p>	50 pieces
6	Earth set applicator	<p>14.5mm Ø spindle to Sunrise fitting. For conversion of foam filled fibreglass earth applicator stick to universal operating stick. Sunrise head to an aluminium bayonet adaptor. Will accept 14.5mm Ø spindle.</p>	50 sets
7	Modiewark tester applicator	<p>Sunrise head to Modiewark. 14.5mm spindle to Modiewark. To connect 32mm Ø foam filled spliced stick to Modiewark holder.</p>	50 pieces
8	Earth sets	<p>Portable earthing and short-circuiting equipment is designed so that it will conduct fault currents between phase conductors and to earth for sufficient time to allow the circuit protection to disconnect supply. It is NOT designed to conduct fault currents continuously, but must remain electrically continuous until the circuit breaker or fuse interrupts the fault current. It is recommended an inbuilt cable of three phase conductor and earthing clamps. Cables are abrasion resistant, durable PVC rated at 0.6/1kV. Whether transparent or opaque, the cable covering is UV-stabilised and offers optimum mechanical protection to the cables.</p>	50 sets
9	Earth sticks for transmission lines	<p>Every set of earthing and short-circuiting equipment has a designated rating, being a specified current for a specified time. It is required to carry this current for this time whilst maintaining the continuity of the electric circuit between conductors and to earth. The single earth cable length must be 2M size 25mm or above with single operating stick length 2M inbuilt with clamp that is applied to a steel tower or rail.</p>	50 pieces
10	Rubber gloves Leather protectors Glove bags	<p>The electrical insulating rubber gloves for live L.V. work and high voltage operations. To IEC60903 and/or AS2225. Recommend sizes of 11/12 only must include rubber glove protector (leather) and carry bag. Leather protectors should always be worn over Insulating Rubber Gloves to provide the needed mechanical protection against cuts, abrasions and punctures.</p>	50 pieces
		<p>Used for safe rescue of victims of electric shock or other injuries when working on LV switchboards in electricity supply and</p>	

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11	LV Switchboard Rescue Kits	<p>industrial substations. Used for:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Locating & isolating supply <input type="checkbox"/> Protecting the rescuer <input type="checkbox"/> Retrieving the victim <input type="checkbox"/> Providing essential first aid <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> High quality fiberglass crook tested and rated for LV use <input type="checkbox"/> High quality torch for maximum visibility (battery supplied) <input type="checkbox"/> All items to hand in convenient carry bag <input type="checkbox"/> Meets regulatory requirements for electrical safety <p>WEIGHT: 3kg</p>	50 pieces
12	Pole Top Rescue Kits	<p>Pole top rescue kits meet electricity authority requirements for pole top rescue of line workers. They are placed at the base of a pole when work is to be carried out at the pole top.</p> <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Rugged durable non-conductive case <input type="checkbox"/> Contains specified rope and fittings for lowering victim <input type="checkbox"/> Contains body belt and equipment for personal protection of rescuer <input type="checkbox"/> Complies with requirements of state regulatory authorities <p>Weight: 9.4kg (KITPTR), 11kg (KITPTRNSW), 9.2kg (KITPTRNT)</p>	50 pieces

Upon receiving quotation, sample and closing of this tender, Evaluation and Awarding will proceed for the engagement of the qualified bidder to supply the required number of High Voltage Operating Equipment compliance with AS/NZS.

PNG Power reserves the right to engage any preferred supplier at will without notice.

TENDER NO: 18/2019

This tender shall close on the 10/05/2019.

Should any queries arise from the above information, please do not hesitate to contact the undersigned facilitator.



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A/Coordinator HV Compliance & Certification
People & Transformation BU
HSEW – HV Compliance & Certification Division
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