

Fiji Electricity Authority

Transmission Unit

2 Marlow Street, Suva

TENDER NO: MR 92/2017

SUPPLY OF HIGH VOLTAGE PROXIMITY DETECTORS



Supply of High Voltage Proximity Detectors for Transmission Unit

TENDER DOCUMENT AND SPECIFICATIONS

The Fiji Electricity Authority invites sealed tenders from reputable companies with the relevant experience, for the Supply of High Voltage Proximity Detectors. The equipment would be used for compaction works in carrying out detection of the presence of high voltages on overhead lines, switchgears, underground cables and other high voltage equipment.

TECHNICAL SPECIFICATIONS FOR HIGH VOLTAGE PROXIMITY DETECTOR

1) Standards Applicable for this Tender

The High Voltage Proximity Detector shall be designed, manufactured and tested in accordance with the requirements for the following Conformity Directives.

AS 61010.1: 2003	Safety requirements for electrical equipment for measurement, control and laboratory use
EN 55011: 2009	Industrial, scientific and medical equipment– Radio-frequency disturbance characteristics Limits and methods of measurement
AS/NZS 61000.4.2: 2002	Testing and measurement techniques – Electrostatic discharge immunity test
AS/NZS 61000.4.3: 1999	Electromagnetic compatibility (EMC) - Testing and measurement techniques - Radiated radio-frequency electromagnetic field immunity test

Note: Bidders shall demonstrate/submit proof of ownership and possession of aforementioned directives.

2) Manufacturer’s Qualification

The manufacturer shall be ISO 9001-2000 and ISO 14001-2004 certified and shall maintain a development and engineering department to provide a technical after sales service and information related to the High Voltage Proximity Detector.

Manufacturer shall have sufficient supply and manufacturing experience of High Voltage Proximity Detector for at least ten (10) years for the required work specifications. As proof, the manufacturer shall submit a supply-list indicating type of High Voltage Proximity Detector, quantity supplied, name of client and the year of delivery. Certificates from customers with satisfactory usage shall be provided with the supply record. High Voltage Proximity Detector shall be considered, for which a minimum 5 years manufacturing and successful service experience is available, without change of basic design and material.



The qualified manufacturer shall have designed, manufactured, tested and supplied at least 3,000 units of similar High Voltage Proximity Detectors for the same work specification

3) Design and Material Requirements

- a. The product must work for different voltage ranges (Minimum: 240V; Maximum: 275kV)
- b. The tester shall have a sensor that does not require physical contact with electrical conductors. It should be able to work from a distance of at least 5 centimeters.
- c. The device shall work in operating temperatures ranging from -15 Degrees Celsius -
- d. It shall have bright LEDs visual indication
- e. It shall also have a sound indication detecting the presence of voltage
- f. Shall have an easy to prove method
- g. A provision for self – test selection shall be provided
- h. Should be able to work with Type C Lithium batteries
- i. The device shall have a High impact nylon casing
- j. It shall be compatible with Link Sticks and mountable using universal attachment coupling.
- k. The High Voltage Proximity Detector shall be Light weight, robust and compact
- l. Should be suitable or both indoor and outdoor use
- m. The High Voltage Proximity Detector should easily detect low voltage on any systems in the range of 240VAC to 275kVAC
- n. The detector shall have dual annunciation modes i.e. both Audio and Visual. The Audio annunciation should be a distinct beep audible from a distance of 15m and the visual annunciation shall be bright LED lights.
- o. The device shall be accompanied by a Rugged Casing that makes it robust while carrying it to various sites.
- p. The supplier shall also provide a Testing and Calibration certificate of each unit supplied to FEA.

4) Experience Evaluation

For evaluation of manufacturer’s qualifications, the manufacturer must submit a reference list showing supply experience for supply of High Voltage Proximity Detector. In addition, if any in-service failures due to the quality of High Voltage Proximity Detectors have been experienced, the manufacturer should submit the information on the failures including the cause of the failures and the counter consequences taken.

5) Prices and Quantity Required

Prices shall be quoted in Fijian Dollar Currency, inclusive of all taxes, customs, clearance charges, and duties payable in Fiji and for delivery to **FEA’s Navutu Depot in Lautoka.**

SCHEDULE OF QUANTITIES AND BIDDER’S PRICES	
ANTICIPATED QUANTITY REQUIRED	20



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BIDDER's UNIT PRICE FJD \$ (VIP) (Including all applicable taxes, customs clearance charges and duties)	
BIDDER's LUMP SUM PRICE FJD \$ (VIP) (Including all applicable taxes, customs clearance charges and duties)	

Bidders to utilize the above table to submit prices.

Prices shall be valid for at least 90 calendar days, from the closing date of this tender.

6) Packaging

The High Voltage Proximity Detector shall be securely and effectively packaged in prefabricated packaging that has sufficient strength for normal handling.

7) Duration of Production and Delivery

The FEA requires the delivery of High Voltage Proximity Detectors by the 1st April 2017. Bidders shall clearly indicate the duration of production and shipping (if applicable).

8) Payment Terms

FEA's standard 30 days payment policy upon delivery of goods and services applies. Bidder's to explicitly note all exceptions and/or reservations to the same if any.

9) Warranty

The supplier shall provide a warranty of at least one year for the High Voltage Proximity Detectors supplied to FEA.



Tender Submission - Instruction to bidders

It is mandatory for Bidders to upload a copy of their bid in the **TENDER LINK** Electronic Tender Box no later than **4:00pm, on Wednesday 17th May, 2017**.

To register your interest and tender a response, view 'Current Tenders' at:
<https://www.tenderlink.com/fea>

For further information contact The Secretary Tender Committee, by e-mail
TDelairewa@fea.com.fj

In additional, hard copies of the tender, one original and one copy must be deposited in the tender box located at the FEA Head Office, 2 Marlow Street, Suva, Fiji no later than **4:00pm, on Wednesday 17th May, 2017**- Addressed as

Tender – MR 92/2017 – Supply of High Voltage Proximity Detectors

**The Secretary Tender Committee
Fiji Electricity Authority
Head Office
Suva
Fiji**

- **Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and it is dispatched before the closing date and time.**

Tenders received after **4:00pm** on the closing date of **Wednesday 17th May, 2017**.

- will not be considered.
- Lowest bid will not necessarily be accepted as successful bid.
- **It is the responsibility of the bidder to pay courier chargers and all other cost associated with the delivery of the hard copy of the Tender submission including any Duties/Taxes. Hard copies of the Tender submission via Post Box will not be considered.**