



# **FIJI ELECTRICITY AUTHORITY**

## **BIDDING DOCUMENT**

MR 03/2018

**SUPPLY OF 10 MULTIMETERS  
FOR TST CENTRAL**

## PURPOSE AND DESCRIPTION OF THE TENDER

This tender is to purchase quality, durable and reliable multimeter/clamp meter for the Technical Support Team (TST) in the Central Division. The bidder's proposal shall address all specification and provide sufficient information and supporting documentation in order to determine compliance. The supplier is to supply each unit complete with all recommended accessories as stated in the particulars in the specifications below. Therefore, FEA is looking to purchase 10 units of the offered multimeter/clamp meter.

### 1. Technical Evaluation

The table below is to be filled by the bidders and sent back as part of tender submission.

General	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Detachable digital display reads measurements up to 30 feet away</li> </ul>	
<ul style="list-style-type: none"> <li>iFlex flexible current probe included, 18-inch circumference</li> </ul>	
<ul style="list-style-type: none"> <li>2500 A ac current measurement with iFlex</li> </ul>	
<ul style="list-style-type: none"> <li>1000 A ac and dc current measurement with fixed jaw</li> </ul>	
<ul style="list-style-type: none"> <li>1000 V ac and dc voltage measurement</li> </ul>	
<ul style="list-style-type: none"> <li>True-rms ac voltage and current</li> </ul>	
<ul style="list-style-type: none"> <li>Frequency measurement to 500 Hz</li> </ul>	
<ul style="list-style-type: none"> <li>60 k<math>\Omega</math> resistance measurement</li> </ul>	
<ul style="list-style-type: none"> <li>Min/Max/Avg and inrush recording</li> </ul>	
<ul style="list-style-type: none"> <li>CAT IV 600 V, CAT III 1000 V safety rating</li> </ul>	
<ul style="list-style-type: none"> <li>TL75 Test Leads supplied</li> </ul>	
<ul style="list-style-type: none"> <li>TP920 Test Probe Adapter set also supplied</li> </ul>	
<ul style="list-style-type: none"> <li>Soft carrying case supplied</li> </ul>	
<ul style="list-style-type: none"> <li>Multimeter pamphlet/brochure</li> </ul>	

Electrical Specification – AC Current via Jaw	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Range: 999.9A</li> </ul>	
<ul style="list-style-type: none"> <li>Resolution: 0.1A</li> </ul>	
<ul style="list-style-type: none"> <li>Accuracy: 2% <math>\pm</math> 5 digits (10-100 Hz)</li> </ul>	
<ul style="list-style-type: none"> <li>Crest Factor (50/60Hz):</li> </ul> <p>3 @ 500 A 2.5 @ 600 A 1.42 @ 1000 A</p>	

Electrical Specification – AC Current via Flexible Current Probe	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Range: 999.9A / 2500A (45Hz – 500Hz)</li> </ul>	
<ul style="list-style-type: none"> <li>Resolution: 0.1A / 1A</li> </ul>	
<ul style="list-style-type: none"> <li>Accuracy: 3% ± 5 digits</li> </ul>	
<ul style="list-style-type: none"> <li>Crest Factor (50/60Hz):  3 @ 1100 A 2.5 @ 1400 A 1.42 @ 2500 A</li> </ul>	

DC Current	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Range: 999.9A</li> </ul>	
<ul style="list-style-type: none"> <li>Resolution: 0.1A</li> </ul>	
<ul style="list-style-type: none"> <li>Accuracy: 2% ± 5 digits</li> </ul>	

AC Voltage	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Range: 600V / 1000V</li> </ul>	
<ul style="list-style-type: none"> <li>Resolution: 0.1 V / 1 V</li> </ul>	
<ul style="list-style-type: none"> <li>Accuracy: 1.5% ± 5 digits (20 – 500 Hz)</li> </ul>	

Frequency via Jaw	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Range: 5.0 – 500.0 Hz</li> </ul>	
<ul style="list-style-type: none"> <li>Resolution: 0.1 Hz</li> </ul>	
<ul style="list-style-type: none"> <li>Accuracy: 0.5% ± 5 digits</li> </ul>	
<ul style="list-style-type: none"> <li>Trigger Level: 5 – 10 Hz, ≥ 10 A 10 – 100 Hz, ≥ 5 A 100 – 500 Hz, ≥ 10 A</li> </ul>	

Frequency via Flexible Current Probe	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Range: 5.0 – 500.0 Hz</li> </ul>	
<ul style="list-style-type: none"> <li>Resolution: 0.1 Hz</li> </ul>	
<ul style="list-style-type: none"> <li>Accuracy: 0.5% ± 5 digits</li> </ul>	
<ul style="list-style-type: none"> <li>Trigger Level: 5 to 20 Hz, ≥ 25 A 20 to 100 Hz, ≥ 20 A 100 to 500 Hz, ≥ 25 A</li> </ul>	

Resistance	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Range: 600 Ω/6 kΩ/60 kΩ</li> </ul>	
<ul style="list-style-type: none"> <li>Resolution: 0.1 Ω/1 Ω/10 Ω</li> </ul>	
<ul style="list-style-type: none"> <li>Accuracy: 1% ± 5 digits</li> </ul>	

Mechanical Specifications	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Weight: not to exceed 400g</li> </ul>	
<ul style="list-style-type: none"> <li>Jaw Opening: 34mm</li> </ul>	
<ul style="list-style-type: none"> <li>Flexible current probe cable length (head to electronics connector): 1.8m</li> </ul>	

Environmental Specifications	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>Operating Temperature: -10°C to +50°C</li> </ul>	
<ul style="list-style-type: none"> <li>Storage Temperature: -40°C to +60°C</li> </ul>	
<ul style="list-style-type: none"> <li>Operating Humidity: Non condensing (&lt; 10°C) ≤ 90% RH (at 10°C to 30°C) ≤ 75% RH (at 30°C to 40°C) ≤ 45% RH (at 40°C to 50°C) (Without Condensation)</li> </ul>	
<ul style="list-style-type: none"> <li>Operating and storage altitude: minimum 1000 meters</li> </ul>	
<ul style="list-style-type: none"> <li>Wireless Frequency for display: 2.4GHz ISM Band 10</li> </ul>	

## 2. Warranty

The bidder is to also state warranty details and submit in their tender submission.

Particulars	Bidder Compliance/Comment
<ul style="list-style-type: none"> <li>At least 3 years</li> </ul>	

## 3. Standard and Conformance

The multimeter/clamp meter is to comply with the following standards:

- IEC/EN 61010-1:2001
- CAT III 1000V
- CAT IV 600V
- ANSI/ISA S82.02.01:2004
- IEC 61010-2-032 for Double Insulation Clearance
- IEC 61010-1 for Double Insulation Creepage

Particulars	Bidder Compliance/Comment
Conformance of product to standard as specified in tender document	Yes/No

## 4. Financial Evaluation

The table below is to be filled and submitted as part of the bidder's tender submission. The prices shall be stated in the Fijian Currency inclusive of all taxes and delivered to FEA Kinoya Depot. FEA shall pay the bidder the FJD VIP price for purchase of the item. All freight and logistics are to be handled and cleared by the bidder at no additional cost to FEA.

The first table is for the lump sum price for the 10 units required. The second table is for per unit price if FEA decides to purchase additional units.

Item	Quantity	FJD (VIP) for total package delivery to FEA Kinoya Depot
Multimeter/ clamp meter with TL75 and TP920 Test Leads/Probes	10	

Item	Quantity	FJD (VIP) for per unit cost including delivery to FEA Kinoya Depot
Multimeter/ clamp meter with TL75 and TP920 Test Leads/Probes	1	

#### 4. Bidder Details

The Bidder shall provide all the necessary information specified in the tables below:

	Particulars	Bidder Response
1	Name of Company/Bidder	
2	Address of Company/Bidder	
3	Telephone Contact	
4	Email	
5	Mobile No	

#### 6. Delivery

The bidder is to state the estimated time of delivery from issue of purchase order. Maximum allowable delivery time to be 6 weeks.

#### 7. Price Validity

The prices must be valid for a minimum of 3 months from date of close of tender. In exceptional circumstances, FEA may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing.

## **Tender Submission - Instruction to bidders**

## **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 31<sup>st</sup> January, 2018**

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](mailto: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 31<sup>st</sup> January, 2018** - Addressed as

**Tender – MR 03/2018 Supply of 10 Multimeters**  
**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 hard copy is dispatched to courier before the closing date and time. Please note courier submission date should be forwarded to FEA with your bid.**

Tenders received after **4:00pm** on the closing date of **Wednesday 31<sup>st</sup> January, 2018**

- 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.**