



Fiji Electricity Authority

Tender Document for Supply of True RMS AC/DC Clamp

Meter Complete with Accessories

(Tender #: MR-107/2017)

Tender Closing Date: 1600hrs, Wednesday, 26thApril, 2017.

Invitation to Bid MR 107 /2017

SUPPLY OF TEST EQUIPMENT FOR FIJI ELECTRICITY AUTHORITY

Fiji Electricity Authority (“FEA”) invites Bids from eligible, qualified and reputable companies for the Supply of True RMS AC/DC Clamp Meter complete with Accessories.

Interested bidders, please address your queries or questions in writing to:

Mr. Abdul Nasim,
Unit Leader Strategic Procurement, Inventories and Properties
Supply Chain Office,
2 Marlow Street, Private Mail Bag,
Suva
or email: Abduln@fea.com.fj

SECTION I - INSTRUCTIONS TO BIDDERS

Notes to Bidders: *This section provides detailed information necessary for Bidders to prepare their Bids, in accordance with the requirements specified by the FEA. It also provides information on Bid submission, opening, evaluation and the award of contract.*

1. Scope

1.1 The entity of the FEA specified above invites Bids for the Supply of True RMS AC/DC Clamp Meter complete with Accessories as described in the Bidding Document.

2. Eligibility of Bidders

2.1 This bidding is open to all eligible companies

2.2 FEA in its sole unfettered discretion, can disqualify or otherwise determine ineligible any potential Bidder that the FEA believes is, has been or will be, whether directly or indirectly, engaged in criminal or any other unethical behavior, financially unsound, or otherwise unfit in the FEA's opinion to participate in the bidding exercise.

2.3 In its Bid, the Bidder shall indicate the origin of Goods proposed.

2.3 A Bidder shall not be eligible to participate in this bidding or in the performance of the contract if the bidder:

- Is bankrupt or being wound up, is having its affair administered by the courts, has entered into an arrangement with creditors, has suspended business activities, is the subject of proceedings concerning those matters or is in any analogous situation arising from a similar procedure provided in national legislation or regulations.

- Has been the subject of a judgment which has the force of judicator for fraud, corruption, involvement in a criminal organization or any other illegal activity detrimental to the financial interests of FEA.
- Is guilty of misrepresentation in supplying the information required as a condition of participation in this bidding exercise or fail to supply this information.
- Is subject to a conflict of interest.

3. Bid Prices

- 3.1 The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid Price of the offered goods.
- 3.2 The Bidder's separation of price components will be solely for the purpose of facilitating the comparison of Bids by FEA and will not in any way limit the FEA's right to contract on any of the terms offered.
- 3.3 All non-exempt duties, taxes and other levies payable by the Contractor under the Contract/Purchase Order, or for any other cause shall be included in the rates, prices and total Bid price submitted by the Bidder.

4. Bid Currency

- 4.1 Unless otherwise specified in Section II, the unit rates and Prices shall be quoted by the Bidder entirely in FJD.

5. Period of Validity of Goods

- 5.1 Unless otherwise specified in Section II, bids shall remain valid for a period of 90 days after the deadline for the receipt of Bids. A Bid valid for a shorter period shall be rejected by FEA as non-compliant.
- 5.2 In exceptional circumstances, FEA shall may solicit the Bidders' consent to an extension of the period of validity. The request and the responses thereto shall be made in writing.

SECTION II – TENDER SPECIFICATIONS

1. True RMS AC/DC Clamp Meter complete with Accessories.

A. Description

Please find below the technical specifications for the True RMS AC/DC Clamp Meter

Failure to submit the technical specifications in full will automatically result in the disqualification of the tender bid.

Electrical Specifications	Range	Resolution	Accuracy	Bidders Remarks
AC Current via Jaw	0 to 999.9 A	0.1 A	2% ± 5 digit (10-100Hz) 2.5% ± 5 digit (100-500 Hz)	
AC Current via Flexible Current Probe	2500 A	0.1 A (≤ 999.9 A) 1 A (≤ 2500 A)	3% ± 5 digit (5-500 Hz)	
DC Current	0 to 999.9 A	0.1 A	2% ± 5 digit	
AC Voltage	1000 V	0.1 V (≤ 600.0 V) 1 V (≤ 1000 V)	1.5% ± 5 digits (20 – 500 Hz)	
DC Voltage	1000 V	0.1 V (≤ 600.0 V) 1 V (≤ 1000 V)	1% ± 5 digits	
mV dc	500.0 mV	0.1 mV	1% ± 5 digits	
Resistance	60 kΩ	0.1 Ω (≤ 600 Ω) 1 Ω (≤ 6000 Ω) 10 Ω (≤ 60 kΩ)	1% ± 5 digits	
Capacitance	1000 μF	0.1 μF (≤ 100 μF) 1 μ F (≤ 1000 μF)	1% ± 4 digits	
Frequency via Jaw	5.0 - 500.0 Hz	0.1 Hz	5 – 10 Hz, ≥10 A	
Frequency via Flexible Current Probe	5.0 - 500.0 Hz	0.1 Hz	0.5% ± 5 digits	

Please note:

The following features shall be provided with this clamp meter:

1. It shall be equipped with a flexible current probe to measure the current on larger cross-sectional conductors or cables. The technical specification is provided in the above table.
2. Min, max, average and Inrush recording to capture variations automatically
3. Integrated low pass filter and state-of-the-art signal processing which allows for use in noisy electrical environments while providing stable readings
4. Proprietary Inrush measurement technology to filter out noise and capture motor starting current exactly as the circuit protection sees it
5. Ergonomic design fits in your hand and can be used while wearing protective equipment

6. Large, easy to read backlight display automatically sets the correct measurement range so you do not need to change the switch positions while taking a measurement
7. Three-year warranty.
8. Soft Carrying Case.
9. IP30 rated.

B. Mechanical Specifications

- The Unit should be of at least size 246mm x 83mm x 43mm (L x W x H)
- The weight of the unit shall be at least 390-400g
- The Jaw opening of the Unit shall be at least 30 to 40mm
- The Flexible Current Probe diameter shall be at least 7.5mm
- The Flexible Current Probe cable length shall be at least 1.8m (head to electronic connectors)

C. Environmental Specifications

- The operating temperature of the Unit shall be at least 10°C – +50°C
- The storage temperature of the Unit shall be at least -40°C – +60°C
- The operating humidity of the Unit shall be at least as the following:
 - Non condensing (< 10 –°C)
 - ≤ 90% RH (at 10°C – 30°C)
 - ≤ 75% RH (at 30°C – 40°C)
 - ≤ 45% RH (at 40°C – 50°C)
- The operating altitude of the unit shall be at least 3000 meters
- The storage altitude of the unit shall be at least 12,000 meters
- The Electromagnetic Compatibility (EMC) of the unit shall be of the standard EN 61326-1:2006

D. Safety Specifications

The safety compliance of the unit shall be of the standards as stated below:

- CAN/CSA-C22.2 No. 61010-1-04
- ANSI/UL 61010-1:2004
- ANSI/ISA-61010-1 (82.02.01):2004
- EN/IEC 61010-1:2001 to
 - 1000V Measurement Category (CAT) III
 - 600V Measurement Category (CAT) IV
- Pollution Degree 2
 - EN/IEC 61010-2-032:2002

- EN/IEC 61010-031:2002+A1:2008

2. Accessories

The following are the accessories that must come with the True RMS AC/DC Clamp Meter package:

Accessories	Quantity
The following items shall come with each True RMS AC/DC Clamp Meter as a Package	
Flexible Current Probe	1
Magnetic Hanging Strap	1
Coated Instruction Card	1
Safety Information Sheet	1
Soft Carrying Case	1
Hard Point Test Leads (Red and Black)	Pair
AA Alkaline Batteries	2 AA, NEDA 15A, IEC LR6

Note: The table only provides details of the accessories for one package; a total of 25 True RMS AC/DC Clamp Meter complete with accessories is required.

3. Total Bid

Equipment	Quantity	Unit Price (FJD)	VIP	Total Price (FJD)
True RMS AC/DC Clamp Meter complete with accessories	21			
Total (FJD)				

Note: All prices should be expressed in FJD.

4. Other Requirements

Other requirements	Bidders Remarks
Supplier should also provide:	
1. Calibration Certificate of instrument along with the traceability	
2. Standard International Guarantee /Warranty certificate	
3. Service center information.	
4. Quoted price should have a validity of 3 months (90 Days)	

5. Bidder to provide following information along with technical data in their technical bid <ul style="list-style-type: none"> • Physical dimensions of the instrument. • Weight of the instrument. • List of the customers to whom they have supplied the quoted model. 	
6. Bidder must be able to provide back-up service/ repair and recalibration	
7. Bidder shall provide for hands-on training on the use of the equipment to FEA Technicians and Engineers on site	

5. General Information

1	Name and Address of the Bidder:	
2	Contacts:	
3	Telephones:	
4	Fax:	
5	E-Mail:	
6	Mobile No:	
7	Name of Chief Executive Office and Telephone No:	
8	Sales Tax/Commercial Tax/CST nos.	
9	Service Tax No.	
10	Income Tax No.	

Name of Authorized Person	
Signature of the Bidder	
Company Stamp	

Date	
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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 1600hrs, Wednesday, 24th 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 new time and date to be inserted - Addressed as

- 1. Tender – MR 107/2017 – Supply of True RMS AC/DC Clamp Meters complete with Accessories.**

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

Hard copies of the Tender bid will 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 **closing time** 1600hrs, Wednesday, 24th 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.