



ENERGY FIJI LIMITED

Tender Specification Document

**SUPPLY OF THIRTY-THREE UNITS OF EARTH
RESISTANCE TESTERS WITH COMPLETE
ACCESSORIES**

Tender #: MR 206/2025

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 Energy Fiji Limited ('EFL'). It also provides information on Bid submission, opening, evaluation and the award of contract.*

1. Scope

EFL invites bids for the supply of thirty-three (33) only complete set of Earth Resistance Tester with Accessories together with training as described in the Bidding Document.

2. Eligibility of Bidders

- 2.1 This bidding is open to all eligible companies
- 2.2 EFL in its sole unfettered discretion, can disqualify or otherwise determine ineligible any potential Bidder that the EFL 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 EFL's opinion to participate in the bidding exercise.
- 2.3 In its Bid, the Bidder shall indicate the origin of Goods proposed i.e. product build in xxxx country.
- 2.4 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 judgement 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 EFL.
 - Is guilty of misrepresentation in supplying the information required as a condition of participation in this bidding exercise or fail to supply this information.

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 EFL and will not in any way limit the EFL's right to contract on any of the terms offered.
- 3.3 All non-exempt duties, taxes and other levies payable by the Supplier/Bidder 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.

3.4 Bid prices shall be **CFR** basis to Suva Port, Fiji. Cost and Freight shall be quoted for by the Bidder. EFL has its own insurance cover for freight.

4. Bid Currency

4.1 Unless otherwise specified in Section II, the unit rates and Prices shall be quoted by the Bidder's Country of Origin.

5. Request for Extension of Bid Submission Period

5.1 Any extension request must be made 72hours prior to tender closure. It shall be EFL's prerogative to either accept or reject the request to extend tender submission deadline.

6. Period of Validity of Goods

6.1 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 EFL as nonresponsive.

6.2 In exceptional circumstances, EFL 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. General Descriptions

Energy Fiji Limited wishes to purchase thirty-three (one off purchase) quality, durable and reliable earth resistance testers with complete accessories for the Distribution teams in the Network SBA. 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.

Note to bidders: Please submit a copy the table below with your products details (in the Bidders Response column) in comparison to what is required by the employer.

Specifications	Bidders Response
General	
Payment conditions (30 day payment term)	
Bid price validity period (90 days)	
Warranty (2 years)	
Does warranty cover all freight + logistics costs or does EFL have to send the equipment to supplier for warranty repairs at its own cost?	
Jaw Opening size for Conductor (40 mm minimum)	
Dimensions (L x W x H) (250 x 133 x 187)mm Or Similar	
Weight (Less than 1.5kg)	
Delivery Incoterm (for overseas bidders - CFR to Suva Port)	
Submission of ISO9001 Quality Management Certificate	
Delivery timeframe (delivery period from issue of purchase order)	
Repair Centre Details i) Where to send item for repair ii) Who will carry out repairs under warranty iii) Any local representative iv) Where to send the item for calibration (if calibration required periodically)	
Electrical	
Display: digit LCD	
User interface	
Unit Design - Robust, water and dust resistant	
Memory size with easy accessibility via USB port	
Ingress protection (IEC/EN 60529: IP30 with jaw closed)	
Operating temperature (-10 °C to 50 °C)	
Storage temperature (-30 °C to +60 °C)	
Temperature coefficient ± 0.1 % of reading/ °C <18 °C >28 °C	
Intrinsic error	

Operating error	
Climatic class C1 (IEC 654-1), -5 °C to +45 °C, 5 % to 95 % RH	
Protective type IP56 for case, IP40 for battery door and IP30 with jaw closed according to EN60529	
Safety - IEC61010-1	
EMC (Emission Immunity) - IEC61326-1	
Quality system - DIN ISO 9001	
External voltage V ext, max = 24 V (dc, ac < 400 Hz), measurement inhibited for higher values	
V ext rejection > 120 dB (162/3, 50, 60, 400 Hz)	
Measuring time Typical 6 sec.	
Max. overload 250 V rms (pertains to misuse)	
Auxiliary power 6 x 1.5 V alkaline (type AA LR6)	
Battery life span Typical > 3,000 measurements	
3-pole ground resistance measurement (IEC 1557-5)	
Switch position - 3 pole	
Resolution - 0.001 Ω to 10 Ω	
Measuring range - 0.020 Ω to 19.99 k Ω	
Accuracy - \pm (2 % rdg + 3 d)	
Operating error - \pm (5 % rdg + 3 d)	
Measuring voltage Vm = 48 V ac	
Short-circuit current > 50 mA	
Measure frequency 128 Hz	
Probe resistance (RS) Max 100 k Ω	
Auxiliary earth electrode resistance (RH) Max. 100 k Ω	
Additional error from RH and RS $RH[k\Omega] \dots RS[k\Omega]/RA[\Omega] \dots 0.2 \%$	
4-pole ground resistance measurement (IEC 1557-5)	
Switch position - 4 pole	
Resolution - 0.001 Ω to 10 Ω	
Measuring range - 0.020 Ω to 19.99 k Ω	
Accuracy - \pm (2 % rdg + 3 d)	
Operating error - \pm (5 % rdg + 3 d)	
Measuring voltage Vm = 48 V ac	
Short-circuit current > 50 mA	
Measure frequency 128 Hz	
Probe resistance (RS) Max 100 k Ω	
Auxiliary earth electrode resistance (RH) Max. 100 k Ω	
Additional error from RH and RS $RH[k\Omega] \dots RS[k\Omega]/RA[\Omega] \dots 0.2 \%$	
3-pole selective ground resistance measurement with current clamp	
Switch position - 3 pole	

Resolution - 0.001 Ω to 10 Ω	
Measuring range - 0.020 Ω to 19.99 k Ω	
Accuracy - \pm (7 % rdg + 3 d)	
Operating error - \pm (10 % rdg + 3 d)	
Measuring voltage $V_m = 48$ V ac	
Short-circuit current > 50 mA	
Measure frequency 128 Hz	
Probe resistance (RS) Max 100 k Ω	
Auxiliary earth electrode resistance (RH) Max. 100 k Ω	
4-pole selective ground resistance measurement with current clamp	
Switch position - 4 pole	
Resolution - 0.001 Ω to 10 Ω	
Measuring range - 0.020 Ω to 19.99 k Ω	
Accuracy - \pm (7 % rdg + 3 d)	
Operating error - \pm (10 % rdg + 3 d)	
Measuring voltage $V_m = 48$ V ac	
Short-circuit current > 50 mA	
Measure frequency 128 Hz	
Probe resistance (RS) Max 100 k Ω	
Auxiliary earth electrode resistance (RH) Max. 100 k Ω	
Stakeless ground loop measurement	
Switch position - 4 pole	
Resolution - 0.001 Ω to 10 Ω	
Measuring range - 0.020 Ω to 19.99 k Ω	
Accuracy - \pm (7 % rdg + 3 d)	
Operating error - \pm (10 % rdg + 3 d)	
Measuring voltage $V_m = 48$ V ac (Primary)	
Measure frequency 128 Hz	
Noise current (IEXT) Max. IEXT = 10 A (ac) (RA < 20 Ω) Max. IEXT = 2 A (ac) (RA > 20 Ω)	
Accessories	
Bidder to state all types of accessories and quantity of each accessories that will be provided with the Earth Resistance Tester together with the part no. of each accessories	

2. Applicable Codes and Standards

The latest revision of the following codes and standards shall be applicable for the earth resistance tester covered in this specification. In case of any deviation, the vendor/manufacturer may propose equipment/materials conforming to alternate codes or standards.

- IEC/EN 61010-1:2001
- CAT III 1000V
- CAT IV 600V
- ANSI/ISA S82.02.01:2004
- EC 61010-2-032 for Double Insulation Clearance
- IEC 61010-1 for Double Insulation Creepage
- IEC/EN 61557-5 for Resistance to Earth
- IEC/EN 61557-16 for Effectiveness of the Protective Measures
- EC/EN 61326-1: Portable Electromagnetic Environment

3. Packaging and Marking

The packaging of items by the bidder must ensure that they are capable of being delivered undamaged giving due consideration to the quantity, distance of transportation and the preferred method of handling at each location.

Each packaged lot shall be marked with the following information:

- Company Name
- Purchase Order Number
- Contact No.
- Item Description

4. Quality Requirements

Tenderers are required to submit evidence that the design and manufacture of the earth resistance testers are in accordance with AS/NZS ISO 9001 and shall include the Capability Statement associated with the Quality System Certification.

If the Tenderer is a non-manufacturing supplier, the documentary evidence shall include the quality system certifications of both the supplier and the manufacturer.

5. Product Warranty Period

The bidder is required to provide the warranty period as part of the proposal. A minimum warranty period of 2 (two) years from receipt time of item(s) at EFL shall be provided.

6. Delivery

The bidder is to state the estimated time of delivery from issue of purchase order (preferably 4 weeks from the issue of purchase order). Maximum allowable delivery time to be 6 weeks from issue of Purchase Order.

For local bidders: delivery to EFL Kinoya Depot.

For international/overseas bidders: Delivery on CFR Incoterm to Suva Port, Fiji. EFL is only liable for import customs clearance charges.

Note: any other incoterm may render the bid null and void leading to disqualification.

7. Price Schedule and Validity Period

Price provided in the table below should have a validity of 90 days period.

Overseas Bidders						
Item No.	Item Required	Quantity Required	Unit Price	Total Price	Currency	Mode of shipment (Airfreight or Sea freight)
1	Supply of Earth Resistance Tester with Accessories	33				
2	9 days of Theory and Practical Training (3 days each for the Central, Western & Northern Divisions)	1				

Incoterm: _____

Local Bidders						
Item No.	Item Required	Quantity Required	Unit Price	Total Price	Currency	
1	Supply of Earth Resistance Tester with Accessories	33			FJD VIP	
2	9 days of Theory and Practical Training (3 days each for the Central, Western & Northern Divisions)	1			FJD VIP	

Note:

- i) International/overseas bidders will have to bid in their country of origin.
- ii) Bid prices shall be typed; bids with handwritten prices shall be disqualified
- iii) Only face-to-face training is preferred not online training.

8. Training

The bidder is also required to carry out a three-day face-to-face theory and practical training that will be each conducted at the EFL Kinoya Depot, Navutu Depot and Labasa Depot. This training shall be conducted by a verified, qualified and experienced person who knows the applications, operations, data interpretation and troubleshooting of the Earth Resistance Tester.

9. Appendix

Technical Details – Earth Resistance Tester

This schedule shall be completed and submitted with the offer. (Refer to Technical Specifications).

Submission Requirements

All tenderers are required to complete and submit a copy of the submission requirements with their bid submissions.

Mandatory Compliance:

- i. Company Registration Certificate
- ii. Price in CFR incoterm for overseas bidders or FJD VIP for local bidders
- iii. Price Validity (preferred 90 days)
- iv. Evidence of other utility using product offered

- v. Minimum 2 years warranty period from time of acceptance of items
- vi. Routine test certificates
- vii. FNPF Compliance Certificate (local bidders)
- viii. FRCS Compliance (local bidders)
- ix. FNU Compliance (local bidders)

Bidders must fulfill 100% compliance to the mandatory items above to be eligible to proceed to evaluation.

(1) Weighting Table

Requirements	Weighting (%)	Bidders Response
Completed technical details	30	
Payment conditions (30 days)	10	
Warranty (2 years)	10	
Delivery Term. (Suva Port, Energy Fiji Limited, Kinoya depot)	10	
Price review period after award of tender. (months)	10	
Bidders company profile outlining financial, technical and production capabilities.	10	
Quality management system used in the production of Earth Resistance Tester, attach certificate.	10	
Detailed receiving, handling and storage details	10	
Total Weight	100	

TENDER CHECKLIST

The Bidders must ensure that the details and documentation mention below must be submitted as part of their tender Bid

Tender Number _____

Tender Name _____

1. Full Company / Business Name: _____
(Attach copy of Registration Certificate)
2. Director/Owner(s): _____
3. Postal Address: _____
4. Phone Contact: _____
5. Fax Number: _____
6. Email address: _____
7. Office Location: _____
8. TIN Number: _____
**(Attach copy of the VAT/TIN Registration Certificate - Local Bidders Only
(Mandatory)**
9. FNPF Employer Registration Number: _____ **(For Local Bidders only)
(Mandatory)**
10. **Provide a copy of Valid FNPF Compliance Certificate (Mandatory- Local Bidders only)**
11. **Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory Local Bidders only)**
12. **Provide a copy of Valid FNU Compliance Certificate (Mandatory Local Bidders only)**
13. Contact Person: _____

I declare that all the above information is correct.

Name: _____

Position: _____

Sign: _____

Date: _____

Tender submission

Bidders are requested to upload electronic copies via Tender Link by registering their interest at: <https://www.tenderlink.com/efl>

EFL will not accept any hard copy submission to be dropped in the tender box at EFL Head Office in Suva.

This tender closes at 4.00pm (1600hrs) on Wednesday 25th June, 2025.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360** or **(+679) 9992400** or email us on tenders@efl.com.fj

The bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act. Bidders are to clearly state the percentage of VAT that is applicable to the bid prices.

The lowest bid will not necessarily be accepted as the successful bid.

The Tender Bids particularly the “Price” must be typed and not hand written.

Any request for the extension of the closing date must be addressed to EFL in writing three (3) working days prior to the tender closing date.

Tender Submission via email or fax will not be accepted.