



**ENERGY FIJI LIMITED**

**Tender Specification Document**

**Supply of Power Cable Fault Locator**

**Tender #: MR 327/2025**

**Tender Closing Date:** 1600hrs, Wednesday, 10<sup>th</sup> December, 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 One (1) only Power Cable Fault Locator (herein referred to as "PFL") as described in the Bidding Document. This new portable equipment shall be used for underground cable circuits fault location up to 11kV.

### **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 to include delivery to Suva Port (Fiji) on CIF basis. The bidder must take into account all logistics and costs involved to have the item shipped to Fiji.

#### **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 72 hours 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 Description

This tender is to purchase a new portable cable fault locating equipment for underground cable circuits up to 11kV. The device is to be Compact, lightweight, all-in-one, rugged portable cable fault locating system for Electrical Utilities able to deliver the following:

- TDR (Time Domain Reflectometer)
- ARC Reflection
- Proof/Burn
- Surge/Thump mode all in one package
- Operational on battery and normal power supply
- Single Portable Unit on wheels
- Automatic end of cable and distance to fault detection.
- Automatic optional sectionalizing.
- Automatic breakdown detection.
- Sheath Fault Testing
- LV Ground Fault Locating in Sheath mode.

The circuit parameters for Energy Fiji Limited (EFL) include but not limited to the following as mentioned below which the PFL will be connected to are:

- Circuit system voltage ranging till 11kV
- Insulation of cable being Paper-Lead (PILC) or XLPE
- Conductor size ranging from 35mm<sup>2</sup> to 300mm<sup>2</sup> 3core cables or 300mm<sup>2</sup> to 630mm<sup>2</sup> single core cable
- Typical circuit length ranging from minimum of 100 meters till approximately 5000meters

The supplier is to supply One Unit as per the specification below and shall include sufficient information and supporting documentation in order to determine compliance with this specification without further necessary inquiries. A hands on training on the Power Fault Locator (PFL) must also be provided at EFL's depot in Kinoya.

## 2. Specifications and Evaluation Criteria

**Note to bidders:** Please submit a copy the table below with your products details (in the BIDDERS PRODUCT DETAILS column) in comparison to what is required by EFL. Failure to submit the mandatory technical specifications in the table below will automatically result in the disqualification of the tender bid.

### GENERAL CRITERIA

CRITERIA	EFL REQUIREMENTS	BIDDERS PRODUCT DETAILS
Model		
Brand		
Application	MV/LV buried cable fault locating; streetlight and solar cable fault locating	
Power Supply	AC line: 100–230 VAC, 50/60 Hz	
Safety	Emergency OFF button; Key-switch interlock; F-Ohm ground potential safety; Remote Emergency OFF interface	
Battery Type	Internal 24 V NiMH, 5 Ah minimum , replaceable type preferred.	
Battery Runtime	Approx: 30–60 minutes of surge/thumping	
Recharge Time	Approx: 3 hours maximum	
Display	7" (17.78cm) HiBrite Transflective TFT color display Color LCD (1280 × 800 pixels) maximum	
Memory Capacity	100 traces or more	
Interface	USB port (2.0 or 3.0)	
Environmental Rating	IP53 (with top open) minimum, built for rugged and tropical environment	
Operating Temperature	10°C to 50°C	
Storage Temperature	10°C to 65°C	
Dimensions	14 × 11 × 25 in (35.5 × 28 × 64 cm) maximum	
Warranty	24 months	
Weight	Not exceeding 40kg	
Supplied Cables	50 ft. (15m) HV cable, ground cable, AC lead set	
Termination Kit Options	T9 termination kits: NZ/AUS Standard Grips	
Training	Hands on training at EFL Kinoya Depot	
Cable rack with	3-reel cable rack for vehicle mounting. Reels for HV cable, safety ground and AC line cord. 40 M or 130 FT for terminations maximum.	

Optional Accessories	Elbow adapters, cable reels, remote emergency OFF, HV adapters supplied.	
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#### TECHNICAL CRITERIA

CRITERIA	EFL REQUIREMENTS	BIDDERS PRODUCT DETAILS
Hipot Output Voltage	12 kV DC	
Output Current	12 mA	
TDR Capability	Built-in TDR with up to 256 trace comparisons	
TDR Range	Up to 170,000 ft / 52 km	
TDR Sampling Rate	100 MHz	
TDR Resolution	2.5 ft @ 250 ft (0.8 m @ 80 m/μs)	
Fault Pre-location	ARC-Reflection (multi-shot), single-shot surge, 0–12 kV	
Surge/Thumping Output	0–12 kV @ 500 J	
Impulse Sequence	5–10 seconds or single shot	
Automatic Features	End-of-cable detection; Distance-to-fault indication	
Sheath Testing and Sheath fault locating	Included for LV & MV cables	
E-Tray System	Quick-step & Expert modes with guided fault locating	
Sectionalizing Function	Optional	
Safety Systems	Emergency OFF, Key-switch interlock, F-Ohm safety, Remote E-OFF	

### 3. Warranty

A 24 -months warranty on the PFL unit is to be provided. The warranty shall start from the point the item has been received by EFL and confirmed operational and defect free after a hands on training.

### 4. User Operation Manual

A user manual is to be provided for each function, usage detail and onscreen options is to be provided with the PFL unit.

### 5. Training

Bidders are to include cost of training for an approximate of 15 participants in Fiji at EFL's Kinoya Depot. Training shall need to be provided within 4 weeks after receiving the PFL by EFL. The details of the hands on training must be provided in the tender bid which may include:

- Classroom exercise – turning on equipment, Feature's, maintenance, etc.
- Field exercise – actual setup, cable fault finding, cable testing, etc.

## 6. Operating Conditions

The Remote Receiver will be used at tropical (fairly humid, rainy and hot) conditions with temperatures ranging from 10 to 50 Degrees Celsius. The nominal frequency of electrical reticulation in Fiji is 50Hz. The equipment shall be water resistant, dust resistant as specified in the criteria tables above.

## 7. Delivery

All items shall be delivered to Suva Port (Fiji) on CIF basis. The bidder must take into account all logistics and costs involved to have the item shipped to Fiji. Delivery lead time 6 weeks.

## 8. Period of validity of Goods

8.1 Bids shall remain valid for a period of 6 months after the deadline for the receipt of Bids. A bid valid for a shorter period shall be rejected by EFL as non-responsive.

8.2 In exceptional circumstances, EFL 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.

## 9. Bid Currency

Unless otherwise specified, the unit rates and prices shall be quoted by the bidder's country of origin.

The following table must be filled and then returned with the bid. The prices must be valid for a minimum period of 6 months.

Description	Quantity	Total Price (CIF) to Suva Port (Currency)
Underground Cable Power Fault Locator 12 month warranty	1	

Description	Quantity	Training Package Price (Currency)
Training cost inclusive of all training material/equipment/software at EFL Kinoya Depot	15 Participants	

The above table is to be filled and submitted with the bid. Failure to submit price as per CIF terms may result in the bid being rejected for evaluation and award. PLEASE STATE CURRENCY.

## 10. Optional Accessories

All optional accessories are to be stated in the bid with delivery prices per unit item. It shall be EFL discretion to either purchase or forego the optional accessories stated. Picture references must be provided for clarity in choosing the accessory.

Prices are to be submitted in a table similar to below format.

Accessory Description		Quantity	Total Price (CIF) to Suva Port (Currency)
1.	Example – HD battery clamp with 100mm male MC color red	2	

## 11. Company Information

1.	<b>Name of Bidding Company</b>	
2.	<b>Contact Person Name</b>	
3.	<b>Telephone</b>	
4.	<b>Fax</b>	
5.	<b>Email</b>	
6.	<b>Mobile</b>	
7.	<b>Name of Company CEO/Director</b>	
8.	<b>Sales Tax/ Commercial Tax/ CST Nos.</b>	
9.	<b>Service Tax No.</b>	
10.	<b>Income Tax No.</b>	

1.	<b>Name of Authorized Person for bidding</b>	
2.	<b>Signature of Authorized Person</b>	
3.	<b>Company Stamp</b>	



## 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 10<sup>th</sup> December, 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](mailto: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.**