



Energy Fiji Limited

Tender Document

Supply of Five (5) Units of Transformer Turns Ratio (TTR)

Test Set

Tender #: MR 328/2024)

Tender Closing date: 1600hrs, Wednesday 9th October, 2024

Invitation to Bid MR 328/2024

SUPPLY TEST EQUIPMENT – FIVE (5) UNITS OF TRANSFORMER TURNS RATIO TEST SET

Energy Fiji Limited (“EFL”) invites Bids from eligible, qualified and reputable companies for the Supply of Five (5) units of Transformer Turns Ratio test set.

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 EFL. It also provides information on Bid submission, opening, and evaluation, and on the award of contract

1. Scope

1.1 The entity of the EFL specified above invites Bids for the Supply of Five (5) units of Transformer Turns Ratio (TTR) test set as described in the Bidding Document. Five (5) portable TTR units to accurately test up to 132/33kV transformers.

2. Eligibility Of Bidders

2.1 This bidding is open to all eligible companies

2.2 EFL in its sole unfettered discretion, 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 Good proposed.

2.3 A Bidder shall not be eligible to participate in this bidding or in the performance of the contract under consideration if such 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 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 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.
- 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 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 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 Bidders Country of Origin.

5. Period Of Validity Of Goods

- 5.1 Unless otherwise specified in Section II, bids shall remain valid for a period of 180 days after the deadline for the receipt of Bids. A Bid valid for a shorter period shall be rejected by EFL as non-responsive.
- 5.2 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.

6. Training

Bidders are to provide training for an approximate of 20 participants in Fiji at EFL's Kinoya Depot AT NO COST TO EFL which must be part of the supplier's value added services. Training shall be provided within 4 weeks after receiving the Power Quality Analyzer by EFL. The details of the face-to-face training must be provided in the tender bid which may include:

- Classroom exercise – turning on equipment, features, maintenance, etc.
- Field exercise – actual setup, setting up of the power analyzer control in field and operating it.

SECTION II – TENDER SPECIFICATIONS

1. **Note to bidders:** Please submit a copy of the table below with your products details (in the BIDDERS Remarks 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. Find below table that contains the technical specifications

Transformer Turns Ratio Test Set		
Technical Specifications	Requirement	Bidders Remarks
1. Excitation Voltage	1V to 250VAC (250VAC single phase max)	
2. Turns ratio measurement	True turns ratio measurement	
3. Power supply	<ul style="list-style-type: none"> • 90VAC - 265VAC • 50Hz • Australian Lead (AU) 	
4. Display	LCD display with backlight	
5. Voltage Resolution and accuracy	0.1% to 0.03% of the test excitation voltages	
6. Turns ratio measuring range	Minimum 1- 45 000	
7. Excitation current range	0 - 2A minimum	
8. Excitation current accuracy	$\pm(0.25\% \text{ rdg} + 500\mu\text{A})$	
9. Phase angle range	0 - 360°	
10. Phase angle resolution	0.01°	
11. Phase angle accuracy	$\pm 0.05^\circ$	
12. Temperature	Operation: 0 to 50°C Storage : -10 to +65°C	
13. Humidity	Operation: 80% RH at 40°C Storage: 95% RH at 40°C	
14. Transformer Winding Phase Relationship	<ul style="list-style-type: none"> • ANSI C57.12.70-1978 • CEI/IEC 76-1:1993 • AS-2374, Part 4-1982 	
15. Test Result Storage	Internal, nonvolatile memory for storing up to 500 sets of three phase measured and calculated ratio, exciting current, phase, ratio error, serial number and transformer type	

16. Safety	EN 61010-1 or relevant	
17. Printer option	No printer required	
18. Weight	Less than 9.5 KG (Without leads)	
19. Dimensions	490(W) x 200(H) x 400(D) or less	
20. PC Interface	USB	
21. Transport	Hard Cover plastic transportation Case for main unit Hard cover plastic transportation case for cables. IP rating of case should prevent moisture, dust ingress and be of mechanical shock proof.	
22. Other Features	<ul style="list-style-type: none"> • Portable • Dust free • Maintenance Instructions (Include inspection schedule) • Troubleshooting instructions (Also include list of replaceable parts) 	
23. Standard accessories and spares	Provide list of all accessories and spares that will come as standard with the product.	
24. Software	To be included in supply (Windows compatible)	
25. Test leads	To be included in supply	
26. Additional Accessories	Provide List with additional accessors and prices	
27. Calibration certificate	To be provided with product	
28. Warranty	Minimum 3 years	
29. Training (Mandatory)	Provide face to face and Hands On training to approximately 20 EFL Network staffs at each of 2 locations (EFL Kinoya and Navutu Depot)	

Category of Evaluation Criteria (Mandatory)	% Weighting
Supplier should also provide:	
1. Calibration Certificate of instrument along with the traceability	5%
2. Provide face to face and Hands On training to approximately 20 EFL Network staffs at each of 2 locations (EFL Kinoya and Navutu Depot) with Instruction Manual, demo videos and software's.	10%
3. Standard International Guarantee /Warranty certificate (3 years minimum)	5%
4. Service center information/ calibration	5%
5. Relevant Standards	5%
6. Quoted price should be validity of 6 months	5%
7. Supplier 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. • Compliance to specification 	10%
8. Instrument should be housed in a rugged, transportable hard carrying case. IP rating of case should prevent moisture, dust ingress and mechanical shock proof.	10%
9. Additional accessories prices provided	10%
10. Delivery lead time 6 weeks	5%
11. Financial	30%

2. Total Bid

Equipment	Quantity	Unit Price (CFR)	Total Price (CFR) to Nadi Airport	Currency
Transformer Turns Ratio Test Set with accessories and Transportation Case	5			

3. 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 Authorised Person	
Signature of the Bidder	
Company Stamp	
Date	

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

This tender closes at 4pm (1600hrs) on Wednesday 9th October 2024.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360** or **(+679) 9999240** 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