

**Tender for Preferred Supplier of 110V<sub>DC</sub> to  
240V<sub>AC</sub> Inverter**



**MR 397/2018**

**Preferred Supplier of 110VDC to 240VAC Inverter**

## **PUBLICITY**

*NO PUBLICITY OR DETAILS ABOUT THIS PROJECT ARE TO BE DISCLOSED BY ANY BIDDER OR ANY OTHER ASSOCIATED PARTY WITHOUT THE WRITTEN PERMISSION OF EFL PRIOR TO, DURING OR AFTER THE PROJECT IS AWARDED. IN GENERAL ANY PUBLICITY OR MEDIA ENQUERIES WILL BE DEALT WITH BY EFL.*

*ALL THOSE WHO REQUEST TO UPLIFT A COPY OF THIS TENDER HAVE AGREED NOT TO DISCLOSURE ANY INFORMATION REGARDING THIS TENDER.*

### **Glossary**

- i. kVA – kilo-volt-ampere
- ii. EFL – Energy Fiji Limited
- iii. CBM – stands for "cubic meter" in shipping. This measurement is calculated by multiplying the width, height and length together of one's carton.
- iv. DIFOTIS - Delivery in Full on Time in Spec
- v. VAT – Value Added Tax
- vi. VIP – VAT Inclusive Price
- vii. SBA – Strategic Business Area

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# 1. GENERAL

## 1.1 The Company - EFL

Energy Fiji Limited (EFL) is a government entity solely responsible for supplying power throughout the Fiji Islands. Power is supplied through Hydro, Diesel and wind mill generators located in different parts of Fiji.

The operations of the company are organized into three geographically defined divisions, which correspond to the national administrative divisions. These divisions are:

- Central Eastern Division based in the capital Suva
  - Suva, Lami, Navua, Tailevu, Levuka and part of the Coral Coast
- Wertern/Nothern Division based in Lautoka
  - Lautoka, Tavua, Ba, Sigatoka, Vatukoula, Northern Division (Labasa, Savusavu, Taveuni)

EFL provides electricity services to most parts of the country especially in the Viti Levu and Vanua Levu area and its electricity grid is shown in the map below.

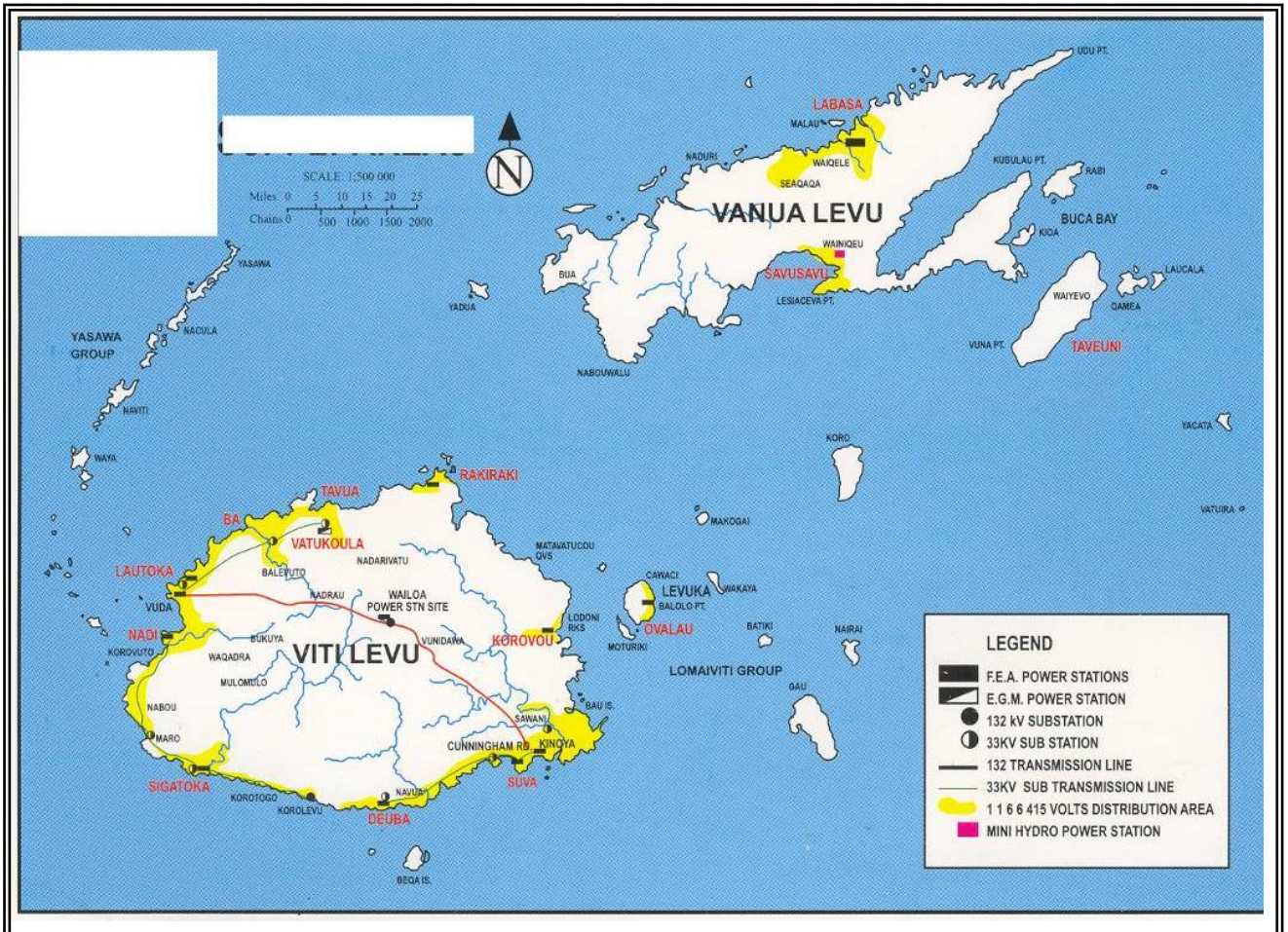


Figure 1 – Energy Fiji Limited coverage Area

EFL’s official website is [www.efl.com.fj](http://www.efl.com.fj) .

## **2. PURPOSE AND DESCRIPTION OF THE TENDER**

Energy Fiji Limited (EFL) is requesting for bids from reputable Companies for the supply of **110V<sub>DC</sub> to 240V<sub>AC</sub> Inverter** to Network SBA for its SCADA system.

## **3. ELIGIBILITY / SELECTION CRITERIA OF THE BIDDER**

The supplier should be a manufacturer, authorized distributor or reseller of the products.

The vendors shall submit the names/contacts of utilities or projects where they have previously supplied the Cabinet.

**All relevant test reports, product standard certificates, and product specification as a table form / drawings are required to be supplied in the tender as part of their bid.**

Other information to be provided by the Bidder as part of the proposal is:

1. Manufacturer's / Vendor's warranty on the product.
2. Method of replacement or reimbursement of faulty / defective or damaged goods
3. Lead time including manufacturing time and shipping duration.
4. The bidder must provide the weight or CBM of the products
5. Previous EFL experience with the Bidder and supplier DIFOTIS (Delivery in Full on Time in Spec)
6. It is mandatory for the Bidders to provide full specification of the cabinet, submission as part of the Bid.

## **4. ONE BID PER BIDDER**

Each bidder shall submit only ONE bid. A bidder who submits or participates in more than one bid will cause all those bids to be rejected.

## **5. COST OF BIDDING**

The bidder shall bear all cost associated with the preparation and submission of its bid and EFL will in no case be responsible or liable for those cost.

## **6. SITE VISITS**

No site visits is needed for this tender.

## **7. CLARIFICATION OF BIDDING DOCUMENTS**

A prospective bidder requiring any clarification of the bidding documents may notify EFL in writing by facsimile or email addressed to:

Tuvitu Delairewa  
General Manager Corporate Services  
2 Marlow Street, Suva, Fiji  
Phone: (679) 322 4185  
Facsimile: (679) 331 1882  
Email: [TDelairewa@efl.com.fj](mailto:TDelairewa@efl.com.fj)

## **8. LANGUAGE OF BID**

The bid, and all the correspondence and documents related to the bid, exchanged between the bidder and EFL shall be written in the English language.

## **9. REJECTION OF ONE OR ALL BIDS**

EFL reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for rejection.

## **10. CONFIDENTIALITY**

Information relating to examination, clarification, evaluation and comparison of bids, and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process. Any effort by the bidder to influence EFL's processing of bids or award decisions may result in the rejection of bidders bid.

## **11. CLARIFICATION OF BIDS**

EFL may, at its discretion, ask any bidder for clarification of its bid to assist in the examination, evaluation and comparison of bids. The request for clarification and the response shall be in writing or by fax, but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by EFL in the evaluation of bids.

## 12. DELIVERY

All required equipment & accessories shall be addressed to **ICT Workshop, Kinoya, Fiji**.  
Nearest sea port to ICT Workshop Kinoya is Suva port, Fiji.

## 13. BIDDER DETAILS

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

General
<b>The registered name of the Bidder:</b>
<b>Business address for correspondence:</b> <i>(Location, Street, Locality City, Pin Code, Country, Telephone, Facsimile, Email Other)</i>
<b>Contact name of the Authorised Person:</b>
<b>Contact's position:</b> <b>Contact addresses if different from above</b> <i>Locality City, Pin Code</i> <i>Location, Street, Country, Telephone, Facsimile, Email, Web address</i>
<b>Business structure:</b>
<b>Include the organisations years of experience in this field and reputation in the market place.</b>

## 14. OTHER VALUE ADDED SERVICES

The bidder is open to include any other information that may add value to their product or after installation and commissioning services.

## 15. TECHNICAL SUPPORT

- i. Bidder should provide details of what technical support is available to EFL to make better use of product.
- ii. Include relevant manuals and instructions for proper care and handling of the equipment and accessories, and operations.



## **16. PRODUCT INFORMATION**

Bidders must include the following document together with their Bid:

- Full Product Specification
- Relevant Test Certificates
- Standard Compliance Certificate.

## **17. PACKAGE SIZE**

The successful bidder will be required to pack and dispatch the item as per EFL's requirement. The package size and quantity will be determined by EFL unless the product is a standard factory package. All packages must be clearly marked with the quantity content in the crate or pallet. The bidder must ensure proper and suitable packing of the item before dispatch to avoid damages during transit.

## **18. DEFECTS WARRANTY PERIOD**

All goods shall be supplied with a Warranty Period of **not less than 12 months** from the date of the receipt of the Goods by EFL. During the Warranty Period, defective parts shall be returned to the supplier for replacement on a pick-up exchange and return-delivery basis. The finer details of the item warranty shall be described in detail by the bidder.

## **19. PRICE VALIDITY**

The price shall remain valid for acceptance within 90 working days from the date of opening of bids and bidders shall not withdraw or amend their proposal prior to the expiration of the validity period. Price Validity of more than 90 working days is highly accepted.

In exceptional circumstances prior to expiry of the original validity period, EFL may request the supplier for an extension in the period of validity. The request and the response thereto shall be in writing. A supplier agreeing to the request will not be permitted to amend his tender price.

EFL is willing to enter into contractual agreement with the successful bidder who is willing to maintain the price for more than 1 year and become a preferred supplier of Cabinet.

## **20. PAYMENT TERMS**

EFL shall pay the invoice amount in foreign currency to the overseas bank account nominated by the successful supplier within 30 days of receipt of the invoice subject payment terms as per the contractual agreement. The local bidders will be paid in Fijian dollars.

EFL gives preference to bidders who do not require advance payment.

## **21. TECHNICAL SPECIFICATION AND REQUIREMENT**

1. Description:

### **110V<sub>DC</sub> to 240V<sub>AC</sub> Inverter – 3kW**

#### Specifications

- 110V DC input to 240V AC output
- 3kW true sinewave inverter
- Output Frequency: 50Hz  $\pm$  0.1%
- 19 inch rack mount
- Unmatched surge capacity
- Low Total Harmonic Distortion < 4%
- High efficiency >94%
- Input protection: DC input circuit breaker
- AC output distribution: AC output circuit breakers
- Isolation between input and output
- Under/over voltage protection
- Overload /short circuit protection
- Over temperature protection
- Low standby current
- Autostart sensitivity 0 - 20W
- Load regulation: No load to full load:  $\leq \pm$  4%
- Operating Temperature : -10 to 50 °C
- Voltage variation: Max  $\pm$  2%
- LED status indicators ON, standby mode, over-temperature, overload, BATT under voltage, BATT over-voltage.
- Thermostatically controlled cooling fan

2. **Standards:**

Safety standards

- AS3100
- AS3000

C-tick

- AS/NZS CISPR14
- AS/NZS 1044

EMC standards

- AS2279
- AS3000
- AS3100
- EN55014

## 22. TENDER EVALUATION

After the bids are received, it will go through a normal tender evaluation process as per EFL'S Tender Policy and Procedures. The successful and unsuccessful bidders will be advised of the outcome after completion of the Tender evaluation process.

The evaluation of the tender submissions will be weighted as such:

No.	Components	Weighting (%)
1	Financial Components	40 %
2	Technical capability	25 %
3	Delivery timeframe. Refer to section 12.	15 %
4	Proven background on Inverter and accessories.	10 %
5	Backup service and spare parts. Refer to section 14 &15.	10%

## **23. SUBMISSION OF TENDER**

It is mandatory for Bidders to upload a copy of their bid in the TENDER LINK Electronic Tender Box no later than 1600hrs, **Wednesday, 21<sup>st</sup> November, 2018.**

To register your interest and tender a response, view 'Current Tenders' at:

<https://www.tenderlink.com/efl>

For further information contact The Secretary Tender Committee, by e-mail

[TDelairewa@efl.com.fj](mailto:TDelairewa@efl.com.fj)

In additional, hard copies of the tender, one original and one copy must be deposited in the tender box located at the EFL Head Office, 2 Marlow Street, Suva, Fiji no later than new time and date to be inserted - Addressed as

**Tender – MR 397/2018 – Preferred Supplier of 110VDC to 240VAC Inverter**

The Secretary Tender Committee

Energy Fiji Limited

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, 21<sup>st</sup> November, 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.

## 24. Appendix

### 24.1 Submission Forms

The following information has to be filled by the bidder and submitted with Tender Documents:

1. Company Name: \_\_\_\_\_
2. Director/Owner(s): \_\_\_\_\_
3. Postal Address: \_\_\_\_\_
4. Email Address: \_\_\_\_\_
5. Phone Number: \_\_\_\_\_
6. Fax Number: \_\_\_\_\_
7. Office Location: \_\_\_\_\_
8. Facsimile & Skype: \_\_\_\_\_
9. Web Address: \_\_\_\_\_
10. After Sales Contact details: \_\_\_\_\_  
\_\_\_\_\_
11. TIN Number (local bidders only): \_\_\_\_\_
12. Company Registration Number(local bidders only): \_\_\_\_\_
13. FNPF Employer Registration Number (local bidders only): \_\_\_\_\_
14. Number of Branches & locations: \_\_\_\_\_
15. Years of Experience & reputation in the market : \_\_\_\_\_  
\_\_\_\_\_
16. Area of business Specialization:
 

<input type="checkbox"/>	Manufacturer & Supplier
<input type="checkbox"/>	Retailer
<input type="checkbox"/>	Licensed Agent
<input type="checkbox"/>	Others, please specify _____ _____

*[Please tick where applicable]*
17. Business Structure :

I hereby, declare that all the above information is correct.

Sign: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Date: \_\_\_\_\_

**General Requirement**

#	<b><u>General Requirement</u></b>	<b>Describe in detail</b>
a).	Specification for 110V <sub>DC</sub> to 240V <sub>AC</sub> Inverter – 3kW provided in the bid.	
b).	Date of Manufacture stated.	
c).	Warranty Details of each item included.	
d).	Willing to accept Purchase Order and provide a minimum of 30days credit account.	
e).	Does not require advance payment and willing to accept payment within 30days after delivery of items to EFL.	
f).	Validity period of the bid price stated.	
g).	Willing to maintain the price for a minimum of 6 months or 1 year. [ <b>optional</b> ]	
h).	Delivery time frame stated.	
i).	Price quoted is Ex –Works.	
j).	Proven background on Inverter & inverter technology provided.	
k).	Be able to provide back up support and spare parts.	
l).	Any other Value Added Services	

**Technical Requirement**

#	<b><u>Technical Requirement</u></b>	<b>Describe in detail</b>
a).	110V DC input to 240V AC output	
b).	3kW true sinewave inverter	
c).	Output Frequency: 50Hz ± 0.1%	
d).	19 inch rack mount	
e).	Unmatched surge capacity	
f).	Low Total Harmonic Distortion < 4%	
g).	High efficiency >94%	
h).	Input protection: DC input circuit breaker	
i).	AC output distribution: AC output circuit breakers	

j)	Isolation between input and output	
k)	Under/over voltage protection	
l).	Overload /short circuit protection	
m).	Over temperature protection	
n).	Low standby current	
o).	Autostart sensitivity 0 - 20W	
p).	Load regulation: No load to full load: $\leq \pm 4\%$	
q).	Operating Temperature : -10 to 50 °C	
r).	Voltage variation: Max $\pm 2\%$	
s).	LED status indicators ON, standby mode, over-temperature, overload, BATT under voltage, BATT over-voltage	
t).	Thermostatically controlled cooling fan	
u).	<p><b>Standards:</b></p> <p><u>Safety standards</u></p> <ul style="list-style-type: none"> <li>• AS3100</li> <li>• AS3000</li> </ul> <p><u>C-tick</u></p> <ul style="list-style-type: none"> <li>• AS/NZS CISPR14</li> <li>• AS/NZS 1044</li> </ul> <p><u>EMC standards</u></p> <ul style="list-style-type: none"> <li>• AS2279</li> <li>• AS3000</li> <li>• AS3100</li> <li>• EN55014</li> </ul>	



## 24.2 Cost

Currency: .....				
<u>No.</u>	<u>Description of Item</u>	<u>Unit Price</u>	<u>Quantity</u>	<u>Price</u>
1.	110V <sub>DC</sub> to 240V <sub>AC</sub> Inverter – 3kW	\$	1	\$
<b>Total</b>				<b>\$</b>

**NB:** The bidders are requested to furnish with their best price after discount per piece. The quantity required by EFL will be decided during the time of ordering.

EFL prefers bidders to quote **Ex –Works Price** in their bids. EFL will make arrangement with its Courier agent for collection/pick up from the successful bidder's location (warehouse or office).

## 24.3 Envelope Address

**Tender – MR397 /2018 – Tender for Preferred Supplier of  
110VDC to 240VAC Inverter  
The Secretary, Tender Committee  
Energy Fiji Limited  
Supply Chain Office  
Private Mail Bag  
Suva**