

**Tender for Supply and Installation of Lokalevu
Solar System and 19” 25RU Open
Rack/Suitable to house batteries and devices**



MR 354/2017

Supply and Installation of Lokalevu Solar System

Table of Contents

1.	The Company - FEA	3
2.	PURPOSE AND DESCRIPTION OF THE TENDER.....	3
3.	SCOPE OF WORK AND TECHNICAL DETAILS.....	3
4.	COST DETAILS.....	4
5.	ELIGIBILITY/SELECTION CRITERIA OF THE BIDDER	6
6.	BIDDER DETAILS	6
7.	OTHER VALUE ADDED SERVICE	7
8.	TECHNICAL SUPPORT	7
9.	PRODUCT INFORMATION.....	7
10.	DEFECTS WARRANTY PERIOD	7
11.	PRICE VALIDITY.....	8
12.	PAYMENT TERMS	8
13.	TENDER EVALUATION	8
14.	SUBMISSION OF TENDER	9
14.1	Overseas Bidders.....	Error! Bookmark not defined.
14.2	Local Bidders	Error! Bookmark not defined.
15.	Appendix	10
15.1	Tender Submission Forms.....	10
15.2	General Requirement Checklist	11
15.3	Google Earth Image of Site Location.....	12
15.4	Site Layout.....	13

THE COMPANY – FEA

Fiji Electricity Authority (FEA) is a statutory body that is responsible for the Generation, Transmission and Retail of electricity on Viti Levu, Vanua Levu and Ovalau. The sources of power include Hydro, Diesel and wind mill generators which are located in different parts of Fiji.

The operational coverage of the company are divided into three geographical divisions which correspond to the national administrative divisions as:

- 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)

FEA's official website is www.fea.com.fj .

2.0 Purpose and description of the Tender

The Fiji Electricity Authority (FEA) is requesting for bids from reputable Solar Companies for the supply and installation of a solar system with all accessories in order to fully power up the Lokalevu Radio Repeater Station for its day to day operation. The supplier should have a wide range of previous work experienced with regards to solar system technology.

3.0 Scope of Works and Technical details:

The bidder is required to design, provide, supply and install a PV system that can continuously supply 1.5kW DC load for 24/7/365 power for this remote site. The following scope of work is required at the site:

- a) To design, Supply, transport, and install all materials for this project as referred in table 2 with all required accessories. The bidder must clearly demonstrate the overall orientation of the system.
- b) Supply 2 x 19" 25RU Rack/box or suitable enclose to house all batteries and devices.
- c) The bidder has to provide brands, warranty, and delivery time for all components system.
- d) The bidder must also supply an inverter which is capable of providing AC if the need arises.
- e) Proposed battery bank should be operational on 12 volts system.
- f) Ground mounting PV system is recommended with proper mounting.
- g) The site is to be left in clean and tidy condition after construction work.

Note

Interested bidders should be available for a **site visit** on **Tuesday 19th of December, 2017** meeting at **9am in Kinoya ICT building**.

Table 1: Technical Details

Technical Specification	Size	
Load Size	1.5kW continuous	
Hours of operation	24 hours	
Energy/day	36 kWh/day	
System Voltage	12Volts	
Ah Load for whole day @ 12 volts	3,000Ah/day	
Minimum Insolation month	June	
Minimum insolation on worst month	2.6 peak sun hours per day	
Required PV Design	12.750 kW @ 12 Volts	
Maximum depth of discharge	80%	
Required Battery Storage	To power a 12V system with a compact battery system design. Batteries must be Industrial type with Deep-Cycle, Maintenance-Free, Lead Acid Battery and deep discharge protection with auto-cutoff.	
Required battery Storage	Bidders to provide design and costing on the following battery backup options	1 day autonomy
		2 days autonomy
		3 days autonomy

4.0 Cost Details

Bidders shall use the table below to list the item with its associated cost. It must be noted that pricing for autonomy of 1 day to 3 days should be provided as per table below.

Table 2: Pricing list

Component	Quantity	Delivery Time	Brand	Price (\$VIP)
Solar panels				
Rack/frames for solar panels.				
Battery to power for a 12V system with a compact solar system design. Batteries must be Industrial type with Deep-Cycle, maintenance-free, Lead Acid Battery and deep discharge protection with auto-cutoff.				
1 day autonomy				
2 days autonomy				
3 days autonomy				
Suitable Battery enclosure/boxes or 19" 25RU Rack				
Inverter				
DC – DC Charger/controller				
Inverter charger for backup				
Hybrid devices to allow connecting to portable generator or FEA power source.				
Protection devices (Circuit breakers)(<i>please name</i>)				
Enclosure materials for protection of power electronic devices.				
Wiring materials				
Transportation cost				
Installation cost				

Specification:

12.3 General Requirement – Material supplied and installation

- a). Warranty – not less than 12 months
- b). Services provided to be of high standard.
- c). Work done as per the details provided.
- d). After service and support

5.0 Eligibility / Selection Criteria of the Bidder

The bidder shall be a contractor who is qualified, well versed and trained for solar technology works with prior experience in similar works.

The vendors shall submit the names/contacts, references of local companies, utilities or projects where they have previously undertaken the work which are similar in nature.

A detailed information regarding how the bidder is going to carry out the solar system works shall be clearly outlined.

6.0 Bidder Details

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

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

Financial standing

(Information designed to give client confidence in the financial competence of the BIDDER.)
Audited financial accounts for past three years shall be included in appendix.

Total Employees:

Sales Total	2014	2015	2016
Net Profit before Tax	2014	2015	2016

Company Profile(s)

Reference Sites.

[Details of at least **two** similar Projects in the last 5 years (including contact details) which will demonstrate the Bidder ability to carry out the functions for this project in a timely and professional manner]

7.0 Other value added services

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

8.0 Technical Support

1. Bidder should provide details of what technical support is available to FEA to make better use of supplier's product.
2. Include relevant manuals/drawings and instructions for proper care and handling of the Tower and accessories.

9.0 Product Information

Bidders must include the following document together with their Bid:

- Full Product Specification/drawings and diagrams.
- Relevant Test Certificates where applicable.
- Standard Compliance Certificate where applicable.

10.0 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 FEA. During the Warranty Period, defective parts shall be replaced by the supplier.

11.0 Price Validity

The price shall remain valid for acceptance within 3 months from the date of opening of bids and bidders shall not withdraw or amend their proposal prior to the expiration of the validity period.

In exceptional circumstances prior to expiry of the original validity period, the Authority 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.

12.0 Payment Terms

FEA 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 to the materials being received in good order and condition for overseas bidders. The local bidders will be paid in Fijian dollars.

13.0 Tender Evaluation

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

The successful bidder will enter into a contract with FEA as mutually agreed. All terms & condition, and pricing details will be stipulated in contract documents.

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

No.	Components	Weighting (%)
1	Financial Components	40 %
2	Technical capability	35 %
3	Delivery timeframe	15 %
4	Proven background on repeater station equipment & Accessories powered by solar system	10 %

14.0 Submission of Tenders

It is mandatory for Bidders to upload a copy of their bid in the **TENDER LINK** Electronic Tender Box no later than **4:00pm, on Wednesday 27th December, 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 **4:00pm, on Wednesday 27th December, 2017**- Addressed as

Tender – MR 354/2017 Supply and Installation of Lokalevu Solar System

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

- **Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and hard copy is dispatched to courier before the closing date and time. Please note courier submission date should be forwarded to FEA with your bid.**

Tenders received after **4:00pm** on the closing date of **Wednesday 27th December, 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 including any Duties/Taxes. Hard copies of the Tender submission via Post Box will not be considered.**

15.0 Appendix

15.1 Tender 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: _____
16. Area of business Specialization: Manufacturer & Supplier
 Retailer
 Licensed Agent
 Others, please specify _____

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

Sign: _____

Position: _____

Name: _____

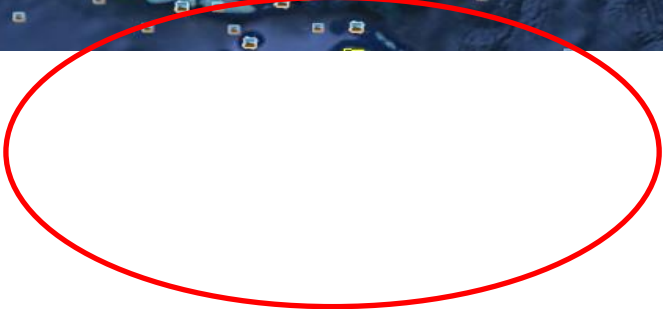
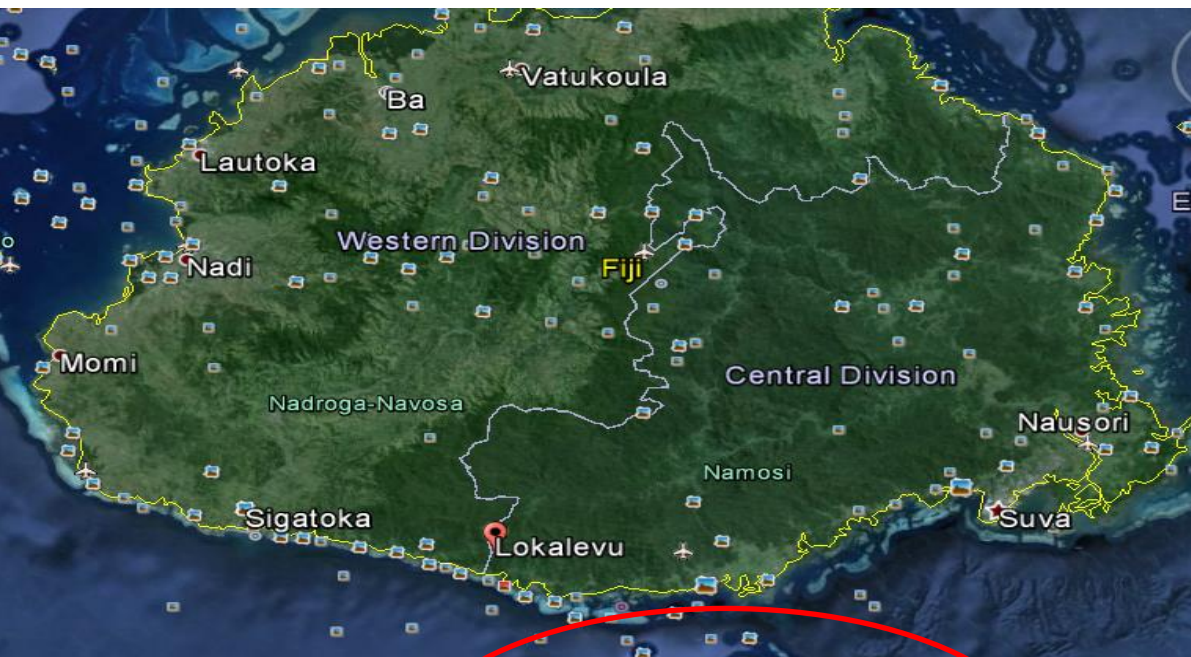
Date: _____

15.2 General Requirement Check list

Solar System Components

#	<u>Requirement</u>	Please Tick (✓)	Comments
i)	Specification for Solar panels, brand, quantity, delivery time, price (VIP) provided in the bid.		
ii)	Specification for Rack/Frames for solar panels - brand, quantity, delivery time, price (VIP) provided in the bid.		
iii)	Specification for Batteries, brand, quantity, delivery time, price (VIP) for each of 1 day, 2 days and 3 days autonomy provided in the bid.		
iv)	Specification for suitable enclosure/box or 19" 25RU rack brand, quantity, delivery time, price (VIP) provided in the bid.		
v)	Specification for Inverter brand, quantity, delivery time, price (VIP) provided in the bid.		
vi)	Specification for DC – DC Charger/controller brand, quantity, delivery time, price (VIP) provided in the bid.		
vii)	Specification for Inverter charger brand, quantity, delivery time, price (VIP) provided in the bid.		
viii)	Specification for hybrid devices to allow connecting to portable generator or FEA power source - brand, quantity, delivery time, price (VIP) provided in the bid.		
ix)	Specification for protection devices (Circuit breakers) brand, quantity, delivery time, price (VIP) provided in the bid.		
x)	Specification for enclosure materials for protection of power electronic devices brand, quantity, delivery time, price (VIP) provided in the bid.		
xi)	Specification for wiring materials brand/manufacturer, quantity, delivery time, price (VIP) provided in the bid.		
xii)	Specification for Transportation cost (VIP) provided in the bid.		
xiii)	Specification for Installation cost (VIP) provided in the bid.		
xiv)	Be able to provide back up support and spare parts.		
xv)	Proven background on solar technology works.		
xvi)	Fully Completed Tender form		

15.3 Google Earth image of site location



15.4 Site layout

