

Tender for Supply of Optical Fibre Distribution Frame (Rack system)



MR 71/2022

**Supply of Optical Fibre Distribution Frame (Rack
System)**



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



Table of Contents

1. GENERAL.....	4
1.1 The Company – EFL	4
2. PURPOSE AND DESCRIPTION OF THE TENDER.....	5
3. PROJECT SCOPE.....	5
4. ELIGIBILITY / SELECTION CRITERIA OF THE BIDDER.....	5
5. DELIVERY & TIMEFRAME	6
6. BIDDER DETAILS	6
6. OTHER VALUE ADDED SERVICES.....	6
7. TECHNICAL SUPPORT	6
8. PRODUCT INFORMATION.....	6
9. DOCUMENTATION.....	7
10. REFERENCE DOCUMENTS.....	7
11. PACKAGE SIZE.....	7
12. DEFECTS WARRANTY PERIOD.....	7
13. PRICE VALIDITY	7
14. PAYMENT TERMS.....	8
15. TECHNICAL SPECIFICATION AND REQUIREMENT.....	9
16. EQUIPMENT & MATERIAL SPECIFICATIONS.....	10
17. TENDER EVALUATION	12
18. COST DETAILS	13
19. SUBMISSION OF TENDER.....	15

1. GENERAL

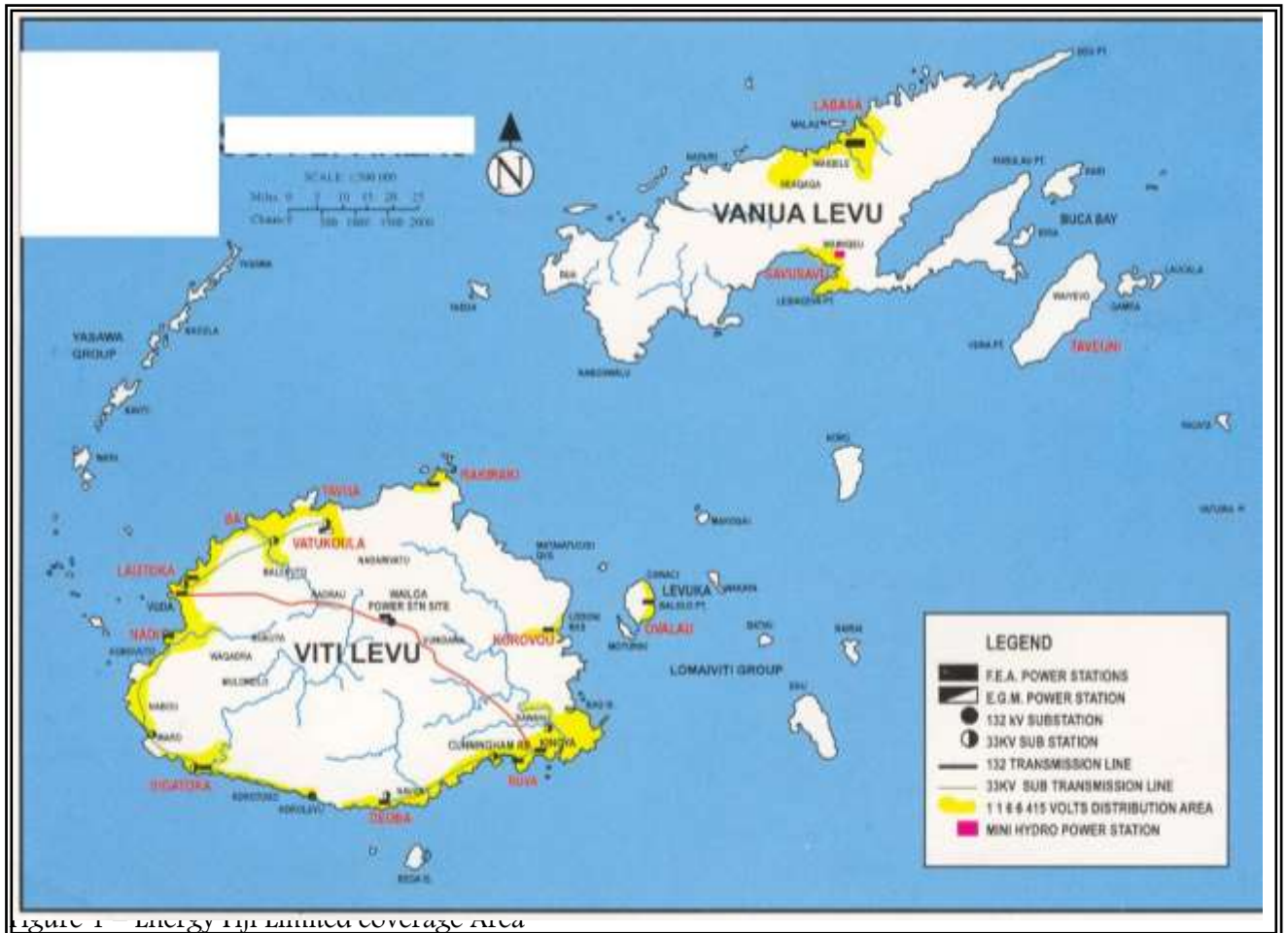
1.1 The Company – EFL

Energy Fiji Limited (EFL) is a public company limited by shares is 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
- Western/Northern 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.



EFL's official website is www.evl.com.fj.

2. PURPOSE AND DESCRIPTION OF THE TENDER

Energy Fiji Limited is undergoing grid extensions developing new substations around Vitilevu to improve supply reliability. Three projects are currently taking place that requires the construction 33kV lines. As per project requirements, OPGW also strung along the 33kV line to provide lightening protection and communication between protection relays between substations.

The Energy Fiji Limited (EFL) is requesting for bids from reputable Suppliers/Manufacturers for the supply of fibre distribution frame (rack system) to be used at the following locations:

- 1) Naikabula substation
- 2) Vuda PS
- 3) Waqadra SS
- 4) Denarau SS
- 5) Sawani SS
- 6) Waitolu SS

ODF rack technical requirement and configuration is shown in Section 16, 17 and 19.

While EFL is procuring 6 ODF rack and accessories for this tender, it is also seeking to engage the successful bidder on the preferred supplier agreement contract for a duration of 2 years. Bidders are required to also state the preferred supplier agreement price in their tender submission.

3. PROJECT SCOPE

Project scope are as follows:

- Supply of fibre distribution frame (rack system). Refer to Section 16 & 17 - Technical specifications for details.

4. 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 ODF rack that they are offering.

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 equipment and submitted as part of the bid.
7. The bidder should provide a 'Quality Assurance Certificate' (QAC) from the manufacturer stating that this equipment supplied is in conformity with the specifications requirements in the Tender.



5. DELIVERY & TIMEFRAME

All required equipment & accessories shall be addressed/delivered to **Telecom Workshop, EFL Navutu, Lautoka, Fiji.**

Delivery timeframe shall be clearly stated in the bid.

6. BIDDER DETAILS

The Bidder shall provide all the necessary information specified in the table 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: <i>Contact addresses if different from above</i> <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.

6. 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.

7. 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.

8. PRODUCT INFORMATION

Bidders must include the following document together with their Bid:

- Full Product Specification
- Relevant Test Certificates



- Standard Compliance Certificate.

9. DOCUMENTATION

- Bid prices shall be typed; bids with handwritten prices shall be disqualified.
- The submitted tender documentation together with submitted technical documentation shall be neatly sorted in adequate sections and bound. All costs of preparing the submission shall be borne by the Bidder.
- The response to the specification is required to be comprehensive with a completed Compliance table as set out.
- Tenderers are encouraged to offer the existing baseline products that are compliant with or equivalent to all mandatory requirements.
- The offered product shall have at least the same or better technical characteristics as requested in this tender.
- The Compliance table included in each chapter of this document provides an entry for each requirement.
- The Tenderer shall also provide additional remarks if they are considered helpful for assessing the response (column Remarks in the Compliance table). Each remark shall be uniquely referred to corresponding document (Clause, Chapter, and Paragraph).

10. REFERENCE DOCUMENTS

Wherever reference is made in the technical specification to specific regulations, standards and codes, the provisions of the latest current edition or revision of the relevant regulations, standards or codes in effect shall apply unless otherwise expressly stated in the technical specifications. Where such standards and codes are national or related to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

11. 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.

12. 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 cost of the freight and repairs shall be borne by the supplier/bidder.

13. PRICE VALIDITY



The price shall remain valid for acceptance within **120 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 120 working days is highly accepted.

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.

14. PAYMENT TERMS

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

Any supplier requesting for advance payment shall provide EFL with a **bank guarantee** from EFL preferred commercial banks for the sum of the advance payment amount. The cost of arranging Bank guarantee shall be the responsibility of the bidder. Failure to accept the above payment terms will render the bid non-compliance.

Highest preference will be given to bidders who do not accept advance payment and willing to accept 30 days credit term.

Contract payments will be made according to the table below.

Payment Details	Description	Percentage payment
Payment	Successful delivery of all equipment's as per tender requirements.	100%

15. TECHNICAL SPECIFICATION AND REQUIREMENT

	Description	Requirements
1	High Density Optical Distribution Frame	<ul style="list-style-type: none"> ✓ ODF shall be capable of having fibre capacity of 720 fibres Single Mode Fibres. ✓ ODF Shall be fully loaded with Cabinet, rack, management system and all necessary accessories for full capacity of the ODF ✓ Is easily added to existing HDODF and ODF Installations ✓ Frame can support standalone, back-to-back or side by side at a MOF installation ✓ Allows for storing excess patch cord length (of 2500mm) in a neat and organized manner in LHS cord running unit ✓ Fitted with CEMT (Cable Element Management Tray) to fasten cables CSM and run cable elements in flexible transport tubes to each sub rack position ✓ Can be fitted on a raised floor or under overhead superstructure, for bottom and top cable entry respectively ✓ Organized patch cords travel in an organized, protected manner, along a designated route, from each sub rack, until they leave the HDODF at the top LHS, through a convoluted tube/s to the overhead ducting system ✓ Top and bottom high-capacity ducting (raceway) allow side to side and back-to-back cross patching ✓ Accepts a variety of LH pivot, 19” rear mount sub racks e.g., 1RU, 2RU splice/patch (72f), or 3RU or 2RU patch/patch sub racks, etc ✓ Has insulated, adjustable feet, and anchoring brackets, supplied with floor securing fasteners ✓ Fitted with ESD earthing point and cable connection to building system ✓ Must have 2-point locking doors ✓ Side panels slide

		forward for installation and removal, when installed next to adjacent obstructions
2	Splice and patch swing out patch panel	<ul style="list-style-type: none"> ✓ Maintains fibre bending radii throughout, for terminated optical fibres at 30mm ✓ Supplied with 1 set of 2 high, splice tray assemblies ✓ Entry and exit fibre cords are guided by 30mm radius removable guides ✓ An easily accessible, hinged cover, with a patch panel label is provided in front of the patch panel ✓ Loose tube, tight buffer or ribbon cable options available ✓ Supplied with mounting brackets and mounting hardware ✓ Hook and loop style fasteners supplied ✓ Can be specified for single mode or multimode fibre applications ✓ Design ensures minimal fibre movement when tray is opened and closed ✓ Maintain Fibre MBR (Minimum Bend Radius) ✓ Customizable options ✓ Supports Fibre Options: ✓ Single Mode – OS1 / OS2 ✓ Multimode – OM1, OM2, OM3, OM4 ✓ Connector Type: SC

16. EQUIPMENT & MATERIAL SPECIFICATIONS

1.1 OPTICAL FIBRE DISTRIBUTION FRAME (RACK SYSTEM)

The optical distribution frame shall have the following features:

- 1) Standard 19” installation 1200 x 300, door set and side panel; fully enclosed structure
- 2) Capacity of 720 splicing (ports)
- 3) Can be installed with value-added modular units, such as fibre splitters, WDM, etc
- 4) Full front operation; can be installed against wall, side-by-side or back-to-back
- 5) Complete cable routing design with fibre bend radius over 40mm

- 6) Modular design and easy installation
- 7) Inlet/outlet cables from top to bottom
- 8) Optimal arrangement for patch cords with fibre storage units
- 9) Reliable holding, protection and grounding for optical cables
- 10) Modular system, allowing growth and expansion by adding additional FOBOT's/subracks as required
- 11) Variety of sizes to suit any Telecom Exchange or Data Centre footprint
- 12) Suits a variety of cable types - loose tube fibre, ribbon fibre, rollable or SWR cable, pre-terminated cables, MTP/MPO fibre assemblies, distribution/riser cables, etc
- 13) Fibre spools for slack storage of excess fibre lengths
- 14) Integrated splicing and patching
- 15) Ability to support high-density MTP®/MPO cabling systems
- 16) Suitable for overhead or underfloor cable pathways
- 17) Compatible with fibre ducting raceways and drop-offs, as well as a provision for optional internal ducting raceway and cable pathways
- 18) Provides physical network security
- 19) Enables easier moves, adds and changes (MAC's)
- 20) Can be provided with side panels and a variety of doors and locking options
- 21) High-density solution, utilising SC/A or LC/UPC connectivity with splice/patch modules
- 22) Accepts loose/tight buffered cable types from 12 fibres upwards. Also accepts ribbon fibre cables with 144 fibre tubes maximum
- 23) Is easily added to existing HDODF and ODF installations.
- 24) The HDODF's can also be installed: stand-alone, back to back or side by side at a MOF installation
- 25) Allows for storing excess patch cord length (of 2500mm) in a neat and organized manner in LHS cord running unit
- 26) Fitted with CEMT (Cable Element Management Tray) to fasten cables CSM and run cable elements in flexible transport tubes to each sub rack position
- 27) Can be installed on a raised floor or under overhead superstructure, for bottom and top cable entry respectively
- 28) External cable entry has its own compartment that is separate from outgoing optical fibre cords
- 29) Outgoing patch cords travel in an organized, protected manner, along a designated route, from each sub rack, until they leave the HDODF at the top LHS, through a convoluted tube/s to the overhead ducting system
- 30) Top and bottom high capacity ducting (raceway) allow side to side and back to back cross patching
- 31) Accepts a variety of LH pivot, 19" rear mount sub racks e.g. 1RU, 2RU splice/patch (72f), or 3RU; or 2RU patch/patch sub racks, etc.



- 32) Has insulated, adjustable feet, and anchoring brackets, supplied with floor securing fasteners.
- 33) Fitted with ESD earthing point and cable connection to building earth system
- 34) Security - 2-point locking doors
- 35) Side panels slide forward for installation and removal, when installed next to adjacent obstructions

17. 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	35 %
2	Technical capability	40 %
3	Delivery timeframe.	10 %
4	Proven background on products quoted	5 %
5	Warranty, backup service and spare parts.	10%

18. COST DETAILS

18.1 Bidders Cost Details

Bidders shall use the table below to list summary of cost associated with this tender. For OVERSEAS bidders their prices must be quoted in their currency with CIF freight term and the port of delivery is LAUTOKa. For LOCAL bids, price must be quoted in FJD (VIP)

Description	ODF Details		Vuda SS		Naikabula SS		Waqadra		Denarau		Waitolu		Sawani	
	Part #	Unit Price	QTY	Total	QTY	Total	QTY	Total	QTY	Total	QTY	Total	QTY	Total
Rack 1200 x 300			1		1		2		1		1		1	
Door set (2 doors)			1		1		2		1		1		1	
Side panel x 1			2		2		4		2		2		2	
Subrack 72F Spice (Connector type SC-UPC)			6		6		6		6		6		4	
SC-UPC to LC Patch lead (5m)			30		30		30		30		30		30	
SC-UPC to LC Patch lead (10m)			30		30		30		30		30		30	
SC-UPC to LC Patch lead (15m)			30		30		30		30		30		30	
SC-UPC to SC-UPC (5m)			30		30		30		30		30		30	

Note – The ODF should have an optic fibre cable management system to neatly store loose fibre

18.2 Preferred Supplier Agreement Price

Description	ODF Details		EFL site	
	Part #	Unit Price	QTY	Total
Rack 1200 x 300			1	
Door set (2 doors)			1	
Side panel x 1			2	
Subrack 72F Spice (Connector type SC-UPC)			1	
Subrack 48F Spice (Connector type SC-UPC)			1	
SC-UPC to LC Patch lead (5m)			30	
SC-UPC to LC Patch lead (10m)			30	
SC-UPC to LC Patch lead (15m)			30	
SC-UPC to SC-UPC (5m)			30	

Note:

- 1) For overseas bidders, price shall quote CIF, Suva while local bidders shall provide quote in VIP prices
- 2) Condition of purchase to be clearly stated. EFL anticipate to purchase around 15 ODF as part of this preferred agreement.

19. SUBMISSION OF TENDER

19.1 Bidders

Electronic copies of the tender bid must be uploaded in the **TENDER LINK** Electronic Tender Box no later than **4:00pm (1600hrs Fiji Time)**, on **Wednesday 13th April, 2022**.

To register your interest and tender a response, view 'Current Tenders' at:
e-Tender portal – <https://www.tenderlink.com/efl>

The tender bid shall be addressed as follows:

- **Tender – MR 71/2022 Tender for Supply of Optical Fibre Distribution Frame (Rack system) /
The Secretary, Tender Committee
Energy Fiji Limited
Supply Chain Office
Private Mail Bag
Suva**

Tenders received **after 4:00pm (1600hrs Fiji Time)** on the closing date of **Wednesday 13th April, 2022**

Lowest bid will not necessarily be accepted as successful bid.

For further information or clarification please contact our Supply Chain Office by e-mail tenders@efl.com.fj ; or by phone **(+679) 3224360** or **(+679) 9992400**.



19.2 Compulsory Submission Forms

19.3 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: Manufacturer & Supplier
[Please tick where applicable] Retailer
 Licensed Agent
 Others, please specify _____

17. Business Structure :

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

Sign: _____

Name: _____

Position: _____

Date: _____



General Requirement

#	<u>General Requirement</u>	Describe in detail by citing evidence such document number, clause and page number (s).
a).	Warranty details and warranty period of EACH item stated thoroughly.	
b).	Willing to accept Purchase Order and provide a minimum of 30days credit account.	
c).	Willing to accept payment within 30days after successful delivery of items to EFL.	
d).	Does not require advance payment before delivery of items.	
e).	Be able to provide back up support, spare parts and manual for basic maintenance.	
f).	Delivery time frame stated.	
g).	Proven background on VHF Band Pass Duplexer & Accessories quoted.	
h).	Validity period of the price.	
i).	Letter from Manufacturer to state that the bidder is the authorised distributor/reseller of product offered.	
j).	Any other Value Added Services.	

Technical Requirement

#	<u>Technical Requirement</u>	Describe in detail by citing evidence such document number, clause and page number (s).
a).	Brand/part/model number	
b).	Country of Manufacture	
c).	Products are Brand New.	
d).	Data sheet for all the items provided in the bid.	
e).	Date of Manufacture stated. Preference will be given to those items whose date of manufacture is less than 6 months .	
f).	Any other prominent feature	



19.4 Cost

Local Bidders

Currency: FJD				
No.	Description of Item	Unit Price	Quantity	Price, VIP
1.				\$
2.				\$
3.				\$
4.				\$
5.				\$
6.				\$
	Total			\$

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

All local bidders are to provide with the VIP price which is inclusive of freight, duty, taxes, customs clearance and delivery charges to *Telecom Workshop, EFL Navutu, Lautoka.*

Delivery Timeframe: _____ Weeks



19.5 Overseas Bidders

Currency:				
No.	Description of Item	Unit Price	Quantity	Price, VIP
1.				
2.				
3.				
4.				
5.				
6.				
7.	Freight (CIF SUVA Port).	\$		\$
	Total			\$

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

All overseas bidders are to provide with the CIF price (Lautoka).

Delivery Timeframe: _____ Weeks

19.6 Checklist

No.	Item
1.	Offer Letter
2.	Overall Bid
3.	Cost
4.	Compulsory Submission Forms
5.	Installation manual of ODF rack offered
6.	Letter: authorized manufacturer/distributor/ reseller of ODF rack offered.
7.	Contact details for reference check of past supply of items
8.	Appendices: Any other information and Value Added Service
9.	Local Bidders are to supply the following along with their bid: <ul style="list-style-type: none"> • FRCS Compliance Letter • FNPF Compliance Letter • FNU Compliance Letter (this is in place of the Workman's Compensation)



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>

This is due to COVID 19 restrictions on movements. Therefore, 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 13th April, 2022.

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.

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.