

Tender for Pulling, Laying and Pit Installation of Underground Fiber between Hibiscus Substation and Suva Substation



MR 16/2016

**Pulling, Laying, and Pit Installation of underground Fiber Optic
Cable.**

1. Purpose and description of the Tender

As part of improving the reliability of the electricity supply within the main Central Business District (CBD) area, FEA is undergoing underground cable construction work between Hibiscus substation and Suva substation.

FEA has decided to install an underground fiber optic link along the new 33kV cable route to facilitate this requirement in order to facilitate its protection requirement for faster communication between the two substations.

Through this tender, the Fiji Electricity Authority (FEA) is inviting bidders from reputable Companies to bid for the following:

- 1) Pulling of 36 core underground optic fibre cable.
- 2) Purchasing and Installation of underground fibre pit.
- 3) Construction of secured loop storage in underground cable pit.
- 4) Purchasing of fibre accessories:
 - a) 2 x 36 core Fibre Trays (Duplex Adapter plates).
 - b) 4 x Fiber Optic Fusion Splice Tray & Lid 200mm Kit
 - c) 80 x Fiber Optic Adapter Single Mode SC Duplex (Blue) with long Flange
 - d) 12 pack x Fiber Optic SC Pigtail Single Mode 12pc Kit 2M
 - e) 144 x Fiber Optic Fusion Splice Protector 45mm
 - f) 20 x Fiber Optic SC-ST Duplex Single Mode Lead 5M
 - g) 10 x 1000BASE-LX/LH SFP Transceiver module, SMF, DOM
 - h) 10 x Fiber Optic LC-SC Duplex Single Mode Lead 2M

Conduit and draw wire will be laid by the cable construction contractor.

2. Scope of Works

The scope of works below are required to be undertaken by contractor:

- 1) Lay and Pull **36 core underground fiber Optic cable** between Hibiscus Park Substation to Suva Substation – detail route will be provided during the initial survey period in which all bidders are required to attend.
- 2) Install a secure pit in every 200m or otherwise identified by FEA to facilitate fiber loops. Approximately a total of 18 pits or more should be expected.
- 3) The bidder shall properly coil and secure 50 meters of fiber in every manhole installed.
- 4) The bidder shall be required to provide all the fiber materials and accessories (required as stated in **1. 4**) above) to facilitate the complete connectivity between Hibiscus Park Substation and Suva Substation fiber link.
- 5) The left over fibre debris to be disposed properly as per OHS requirement.
- 6) The sites are to be left in clean and in tidy condition after the fiber pulling, laying and pit installation works.

The duct will be buried along the 33kV underground route with a draw wire in place to facilitate the pulling of the fiber optic cable.



3. Cost Details

Bidders shall use the table below to list the item with its associated cost.

Work	Descriptions	QTY	Unit Price, (FJ \$) VIP	Total Price, (FJ \$) VIP
<i>Purchasing, Supplying and installing secure fiber optic underground pits to facilitate fiber loops.</i>				
<i>Purchasing of fibre Accessories:</i> <ul style="list-style-type: none"> a) 2 x Fibre Trays (Duplex Adapter plates) to fit 3RU sliding Rack. b) 6 x Fiber Optic Fusion Splice Tray & Lid 200mm Kit c) 144 x Fiber Optic Adapter Single Mode SC Duplex (Blue) with long Flange d) 12 pack x Fiber Optic SC Pigtail Single Mode 12pc Kit 2M e) 144 x Fiber Optic Fusion Splice Protector 45mm f) 30 x Fiber Optic SC-ST Duplex Single Mode Lead 5M g) 10 x 1000BASE-LX/LH SFP Transceiver module, MMF/SMF, DOM h) 10 x Fiber Optic LC-SC Duplex Single Mode Lead 2M 				
<i>Pulling and Laying of underground Fiber Optic cable with proper loops.</i>				

Specification:

12.3 General Requirement – Equipment supplied and installation of manhole

- 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.



4. Eligibility/ Selection Criteria of the Bidder

The bidder shall be a contractor who is qualified, well versed and trained for underground optic fiber cable pulling, laying and also have prior experience in optical fiber underground pit installation.

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 installation (pulling and laying) shall be clearly outlined.

5. Bidder Details

The Bidder shall provide all the necessary information and fill the table on page 4 while submitting their bids.

General
The registered name of the Bidder:
Business address for correspondence: <i>(Location, Street , Locality City, Postal Address, Telephone, Facsimile, Email ,Other such as Skype)</i>
Contact name of the Authorised Person:
Contact's position: <i>Contact addresses if different from above</i> <i>Locality City, Postal Address</i> <i>Location, Street, Country, Telephone(Landline & Mobile), Facsimile, Email, Web address</i>
Include the organisations years of experience in this field and reputation in the market place.
Company Registration Details (<u>Local Bidders ONLY</u>): [if not a registered vendor with FEA]
<ul style="list-style-type: none"> • Business Registration Certificate • VAT Registration Certificate • Particulars of Company with Registrar of Companies • Credit Application form, if any for a 30 days account

6. Other value added services

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

7. Technical Support

1. Bidder should provide details of what technical support is available to FEA to make better use of supplier's service.
2. Include relevant manuals and instructions for proper care and handling of the **Pulling, Laying and pit installation of underground Optic Fiber cable.**

8. Defects warranty period

The *Pulling, Laying and underground pit installation/construction of Optic Fiber cable* is to be supplied with a Warranty Period of not less than 12 months from the date of the completion of the *Pulling, Laying and pit construction of underground Optic Fiber cable* works. During the Warranty Period, defective *work* shall be carried out at the expense of the successful bidder.

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

1. Company / Vendor's warranty on the services.
2. Method of replacement or reimbursement of faulty / defective workmanship.
3. Lead time including service time.
4. The bidder must provide details of companies where similar work have been carried out.
5. It is mandatory for the Bidders to provide full specification of *Pulling, Laying and pit installation/construction of underground Optic Fibre cable* as part of the tender document.

9. 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.

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.

10. Payment Terms

FEA shall pay the invoice amount within 30 days of receipt of the invoice subject to the *Pulling, Laying and Pit installation/construction of Underground Optic fiber cable* being received in good order and condition.

The payment will be paid in the currency of the successful bidder/supplier as follows:

- (i) Fijian dollars for local supplier.
- (ii) Foreign currency to the overseas bank account nominated by the overseas supplier.

All bidders will be required to provide a 30 day credit account.

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

No.	Components	Weighting (%)
1	Financial Components & Mode of payment <i>Refer to section 10 & 11.</i>	40 %
2.	Quality of Work as per the specification <i>Refer to section 12.</i>	40 %
3.	Delivery timeframe <i>Refer to section 4.</i>	10%
4.	Warranty <i>Refer to section 9.</i>	10%

12.0 Submission of Tenders

Two (2) hard copies of the tender bids in sealed envelope shall be deposited in the tender box located at the Supply Chain Office at the FEA Head Office, 2 Marlow Street, Suva, Fiji.

Each tender shall be sealed in an envelope with:

- a). The envelope bearing only the following marking:
 - **Tender – MR 16/2016 – Tender for Pulling, Laying and Pit construction of underground Optic Fiber Cable**
The Secretary, Tender Committee
Fiji Electricity Authority
Supply Chain Office
Private Mail Bag
Suva
- b). **It must also indicate the name and address of the tenderer on the reverse of the envelope.**

Tenders received after **4:00pm** on the closing date of **Wednesday 2nd March 2016** will not be considered.

Lowest bid will not necessarily be accepted as successful bid.



All late tenders, unmarked Envelopes and envelopes without bidder's name and address on the reverse will be returned to the Tenderers.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360 or (+679) 9991587.**

TENDER FORM

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

[Please tick where applicable]

Retailer

Licensed Agent

Others, please specify

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

Sign: _____

Name: _____

Position: _____

Date: _____



General Requirement

#	<u>General Requirement</u>	Please Tick (✓)	Describe in detail
a).	Warranty – not less than 12 months.		
b).	Services provided as per the details provided.		
c).	After service and support.		
d).	Delivery Time		
e).	Validity of price		
f).	Supply shall be able to provide 30 day credit account		