

**Tender for Pit Installation, Pulling, and Laying of
Underground Fiber Between Waqadra
Substation and Denarau Substation**



MR 178/2020

1. Purpose and description of the Tender

As part of improving the reliability of the electricity supply to the popular tourist destination of Denarau Island, EFL is embarked into a project of laying 33kV underground power cable from the EFL's Waqadra Substation to the Denarau Island EFL Substation.

EFL has also decided to install and lay its 36 Core Single Mode Underground Fiber Optic Communication Cable along with the new 33kV underground power cable, which is already being layed, route to facilitate its requirement for the Protection System between the two Substations, which requires a faster communication link.

Through this Tender, the Energy Fiji Limited (EFL) is inviting Bidders from reputable Locally Registered Companies to submit their Bid for the following:

- 1) Pulling and Laying of a 12km 36 Core Single Mode Underground Optical Fibre Cable.
- 2) Installation and Secured Fiber Loops (every Pit installed) and Fiber Enclosures (as specified by EFL Engineers) in Underground Cable Pit.
- 3) Repair any damages or blockages along the already installed underground cable conduit.

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

2. Scope of Works

The following scope of works are required to be undertaken by the successful Bidder/Contractor:

- 1) To Lay and Pull a 12km of 36 Core Single Mode Underground Fiber Optic Cable between the EFL's Waqadra Substation (Nadi) and Denarau Substation (Denarau Island) – detail route is provided. All potential Bidders MUST attend the EFL organized Site Visit/Survey. Bidder/s who does not attend the EFL organized Site Visit/Survey will NOT be considered.
- 2) To clear any blockages and fixed any underground conduit damages or breaks, if any, along the already laid 100mm underground cable conduit, from Waqadra Substation to Denarau Substation.
- 3) To Install a Secure all required Underground Fiber Cable Pits, as indicated in the submitted Fiber Route Drawings and in the Appendix Section, and/or otherwise identified or amended by the EFL Technical Representative or Engineer.
- 4) To create appropriate and required fiber cable entry (holes) on all installed cable pit and to make sure that all the cable entry (holes) are sealed to prevent any unwanted entries (water, mud, debris).
- 5) To facilitate the provision and securing of Underground Fiber Cable Loops and/or Underground Fiber Enclosures (Joints) inside the designated Underground Cable Pit, as stated in the submitted Table in the Appendix Section. Approximately a total of 40 - 50 pits should be expected.
- 6) To properly coil and secure all the 10 meters of fiber loop in every Underground Pit installed, as stated in the submitted Table in the Appendix Section.
- 7) To safely remove and disposed any leftover, rubbish, and debris from this installation works, as per OHS and Environmental Requirement and Procedures.
- 8) To clean-up and clear, and dispose, any debris or rubbish at the two EFL Sites/Station (Waqadra Sub & Denarau Sub) and along the Underground Fiber Route at the completion of the work.

- 9) The successful Bidder shall ensure that safety cones/signs and road signs are properly installed around work areas as per Health & Safety and FRA Requirements.
- 10) The Underground Cable Duct (100mm) for the Underground Fiber Cable has already been buried above the Uncommission 33kV Underground Power Cable Route, as shown in the submitted in the Fiber Route Drawing, with the draw cable (rope) in place to facilitate the pulling of the underground fiber optic cable through the Duct.
- 11) EFL Technicians and/or Engineer will carry out the required Fiber End-To-End Test at the completion of each 3km Fiber Drum, or at each designated Fiber Joints.
- 12) The completion of the Required or Expected Scope of Work will be accepted or deemed as completed, by EFL, after the full End-To-End Fiber Test is successful and expected result is achieved by the EFL Technicians and/or Engineer, between Waqadra Sub and Denarau Sub.
- 13) The successful Bidder MUST adhere and comply with all relevant and related Government Policies, Standards, and Procedures and Protocols whenever and wherever is necessary when carrying out the Required Scope of Works.

3. Cost Details

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

ALL PRICE OFFERED MUST BE IN FIJIAN DOLLAR VAT INCLUSIVE.

Work	QTY	Unit Price, (FJD VIP)	Total Price, (FJD VIP)
<i>Proper Installation of the Required Number of Underground Cable Pits (approx. 40 - 50) between Waqadra Sub and Denarau Sub.</i>	1		
<i>Proper Pulling and Laying of a 12km 36 Core Single Mode Underground Fiber from Waqadra Sub to Denarau Sub, with the Required Number of Fiber Loops/Coils (as stated in the submitted Table.</i>	1		

4. Other Requirements

- a). **Warranty** – Minimum of 12 Months Warranty.
- b). Services Provided and Installation Standards to be of Higher and Professional Standard.
- c). Work Done as per the Details provided with this Tender Document.
- d). All Worker's Health & Safety Requirement is the sole responsibility of the Successful Bidder.
- d). After Sale Service and Support.
- e). Delivery Timeline of full completion of Installation Work is to be clearly specified.

5. Eligibility/Selection Criteria of the Bidder

The bidder shall be a contractor who is qualified and well versed with underground cabling installation works and has many years of experience undertaking similar works. The successful bidder is expected to be familiar with the fiber optic communication work.

For bids to be evaluated further, bidders are to submit the following mandatory compliance requirements:

- 1) FNPF Compliance
- 2) Tax Compliance
- 3) FNU Compliance
- 4) Insurance Certificate
- 5) Company Registration Certificate
- 6) OHS Compliance

Bids will be further evaluated against the following criteria:

- 1) Compliance to Design Specification
- 2) Compliance to Technical Specification
- 3) Submitted a detail costing
- 4) Project Management plan (detail work plan) with clear timelines and deliverables
- 5) Experience – submitted detail work experience similar to the work which is about to be undertaken together with contact details for referencing and feedback purposes.

Weighting table

Final evaluation will be based on the following weightings:

	Details	Weightings
1	Price	70%
2	Technical Compliance	10%
3	Compliance to design specification	10%
4	Experience with verified feedback from Customers	5%
5	Project Management (detailed plan) with clear timelines and deliverables	5%
	Total	100%

The Bidder shall submit the Names/Contacts and References of Local Companies, Utilities, or Projects where they have previously undertaken the work which are similar in nature.

6. 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 EFL]
<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

7. Other value added services

The Bidder is open to include any other information that may add value to their Service and After Sales Services.

8. Technical Support

1. Bidder should provide all details of what Technical Support is available to EFL to make better use of Supplier's Service.
2. Include ALL relevant manuals and instructions for proper care and handling of the **Pulling, Laying and Pit Installation of underground Optic Fiber cable.**

9. Defects Warranty Period

The *Pulling, Laying and Underground Pit Installation 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 Installation 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 their 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.
6. FNPF Compliance certificate.
7. FRCS Compliance certificate.

10. Price Validity

The offered 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 Tendered Price.

11. Payment Terms

EFL shall pay for the Invoice amount within 30 days of receipt of the Suppliers/Contractor's Invoice subject to the Successful Completion of the Required Scope of Works, as stated in "*Section 2 – Scope of Works*".

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 the 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 & Mode of Payment <i>Refer to section 9 & 10.</i>	40 %
2.	Quality of Work as per "Section 2: Scope of Work".	40 %
3.	Delivery Timeframe <i>Refer to section 4.</i>	10 %
4.	Warranty <i>Refer to section 8.</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 EFL 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 – 178/2020 Tender for Pulling, Laying and Pit Installation of Underground Optic Fiber Cable**
The Secretary, Tender Committee
Energy Fiji Limited
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 Friday the 26th August, 2020 will not be considered.

Lowest Bid will not necessarily be accepted as successful bid.

All late Tenders, Unmarked Envelopes and Envelopes without the 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. FNP 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:

It is mandatory that these Information MUST be clearly stated in the Bid Document:

#	<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 Offered Price		
f).	Supply shall be able to provide 30 day credit account		

It is mandatory that these Documents MUST be submitted with the Bidder's Tender:

#	<u>Mandatory Requirement</u>	Please Tick (✓)	Describe in detail
a).	Valid FNPf Compliance Certificate		
b).	Valid FRCS Compliance Certificate		
c).	FNU Compliance Letter (this is in place of the Workman's Compensation)		
d).	Traffic Management Plan (where appropriate)		

APPENDIX:

1.) Underground Pit Dimension:

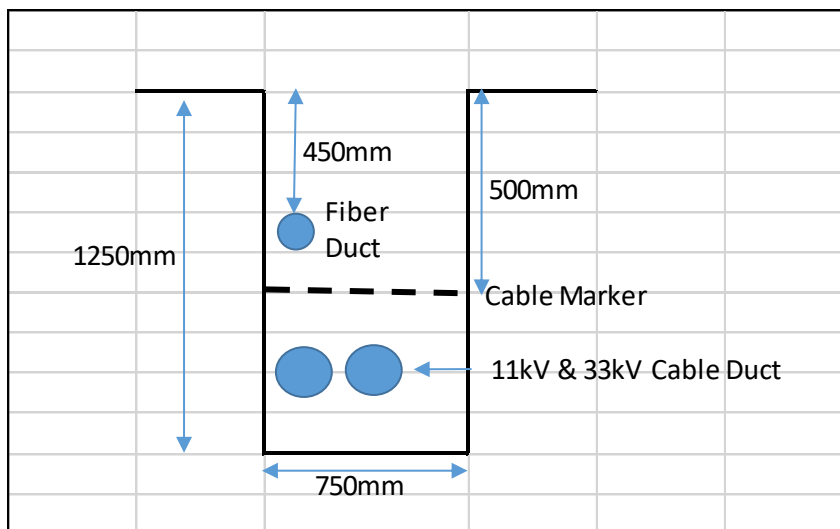
Length – 84.5cm, Width – 54.5cm, Depth – 60.5cm



2.) Waqadra Sub – Denarau Sub Underground Fiber Route:

➤ Drawing Attached

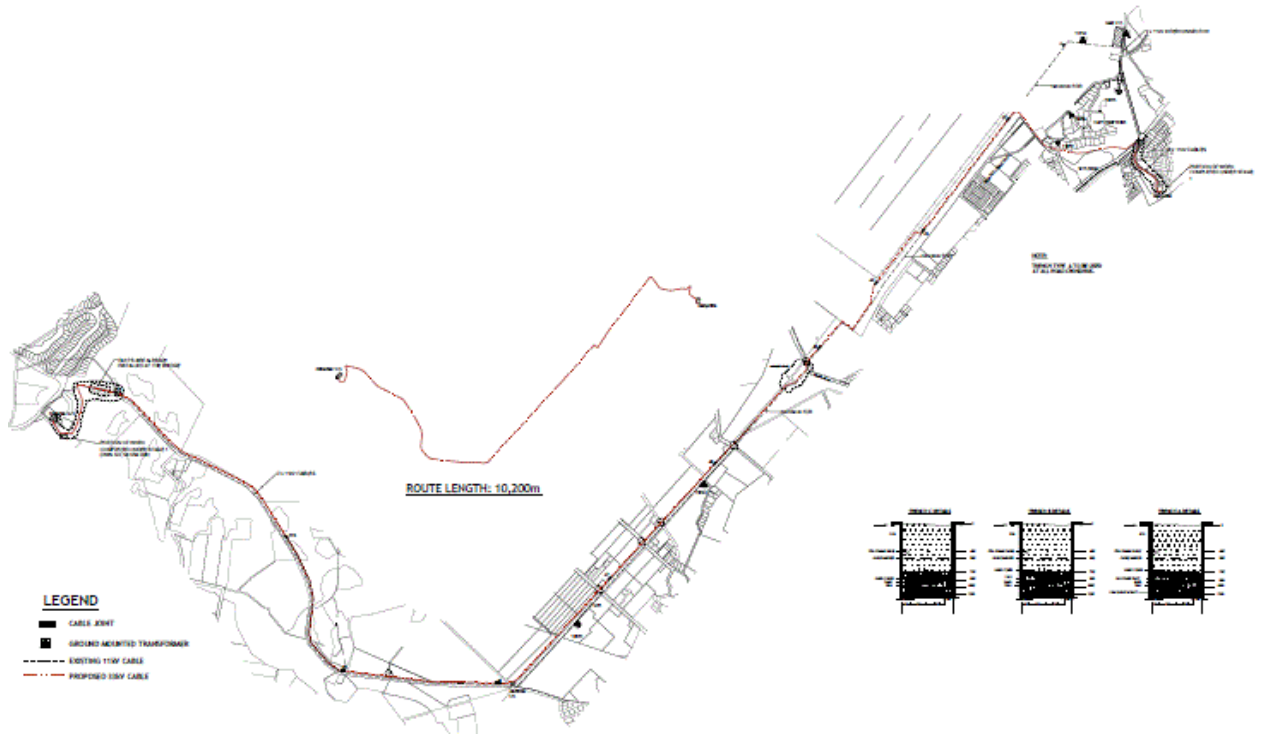
3.) Waqadra Sub – Denarau Sub 33kV Power Cable & Fiber Cable Underground Pit Dimensions & Separations Between Power Cable Conduit & Fiber Cable Conduit:



4.) Underground Fiber Pit, Enclosure, and Loop Approximate Locations:

WAQADRA - DENARAU SM UG FIBER INSTALLATION SUMMARY								
Start/End	Acc. Fiber Dist Without Coil (m)	PIT #	Dist. From Previous Pit (m)	LOCATION	Coil/Joint	Coil Length (m)	Acc Fiber Dist. + Coil (m)	Fiber Drum #
Waqadra Sub	50	0	50.00	Telecom/Scada Room	Coil	40	0.00	1st Drum Start
	424.00	1	374.00	Rajvi	Coil	10		
	474.00	2	50.00	Across Queen Rd (NASA)	Coil	10		
	574.00	3	100.00	NASA Compound	Coil	10		
	850.70	4	276.70	CAAF Compound	Coil	10		
	1,127.40	5	276.70	CAAF Compound	Coil	10		
	1,404.10	6	276.70	Outside AFL Runway Fence	Coil	10		
	1,686.60	7	282.50	Outside AFL Runway Fence	Coil	10		
	1,969.10	8	282.50	Outside AFL Runway Fence	Coil	10		
	2,251.60	9	282.50	Outside AFL Runway Fence	Coil	10		
	2,534.10	10	282.50	Outside AFL Runway Fence	Coil	10		
1st Joint	2,816.60	11	282.50	Outside AFL Runway Fence	Coil & Joint	10	2,966.60	2nd Drum Start
	0.00	12	282.50	Outside AFL Runway Fence	Coil	20		
	282.50	13	282.50	Outside AFL Runway Fence	Coil	20		
	565.00	14	282.50	Outside AFL Runway Fence	Coil	20		
	695.00	15	130.00	Outside AFL Runway Fence	Coil	20		
	977.70	16	282.70	Navakai Area	Coil	20		
	1,260.40	17	282.70	Navakai Area	Coil	20		
	1,543.10	18	282.70	Navakai Area	Coil	20		
	1,825.80	19	282.70	Navakai Area	Coil	20		
	2,108.50	20	282.70	Navakai Area	Coil	20		
	2,391.20	21	282.70	Navakai Area	Coil	20		
2nd Joint	2,673.90	22	282.70	Navakai Area	Coil & Joint	10	2,883.90	3rd Drum Start
	0.00	23	282.70	Navakai Area	Coil	20		
	282.70	24	282.70	Navakai Area	Coil	20		
	565.40	25	282.70	Navakai Area	Coil	20		
	848.10	26	282.70	Narewa Junction (EFL Kios)	Coil	20		
	948.10	27	100.00	Narewa Junction Across Rd	Coil	20		
	1,225.60	28	277.50	Along the Road to Denarau	Coil	20		
	1,503.10	29	277.50	Along the Road to Denarau	Coil	20		
	1,780.60	30	277.50	Along the Road to Denarau	Coil	20		
	2,058.10	31	277.50	Along the Road to Denarau	Coil	20		
	2,358.10	32	300.00	Along the Road to Denarau	Coil	20		
3rd Joint	2,653.10	33	295.00	Along the Road to Denarau	Coil & Joint	10	2,863.10	4th Drum Start
	0.00	34	295.00	Along the Road to Denarau	Coil	20		
	268.00	35	268.00	Along the Road to Denarau	Coil	20		
	536.00	36	268.00	Along the Road to Denarau	Coil	20		
	804.00	37	268.00	Along the Road to Denarau	Coil	20		
	1,072.00	38	268.00	Along the Road to Denarau	Coil	20		
	1,340.00	39	268.00	Along the Road to Denarau	Coil	20		
	1,595.00	40	255.00	Along the Road to Denarau	Coil	20		
	1,850.00	41	255.00	Along the Road to Denarau	Coil	20		
	2,030.00	42	180.00	Denarau Bridge	Coil	20		
	2,130.00	43	100.00	Across the Bridge	Coil	20		
	2,450.00	44	320.00	Towards EFL Substation	Coil	20		
Denarau Sub	2,580.00	45	130.00	Telecom/Scada Room	Coil	100	2,920.00	END

5.) Underground Fiber Route:



TENDER SUBMISSION CHECK LIST

The Bidders must ensure that the details and documentation mention below must submitted as part of their tender Bid

Tender Number _____

Tender Name _____

1. Full Company 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)

9. Company Registration Number: _____
(Attach copy of the Business License)

10. FNPF Employer Registration Number: _____
(For Local Bidders only)

11. Contact Person: _____

I declare that all the above information is

correct. Name: _____

Position: _____

Sign: _____ Date: _____

Submission of Tender

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 EFL Head Office, 2 Marlow Street, Suva, Fiji.

Courier charges for delivery of Tender Document must be paid by the bidders.

This tender closes at 4:00 p.m. (16.00hrs Fiji time) on Wednesday 26th August, 2020.

Each tender shall be sealed in an envelope with the envelope bearing only the following marking:

MR 178/2020

Pit Installation, Pulling and Laying of Underground Fiber between Waqadra Substation and Denarau Substation, Nadi

The Secretary, Tender Committee

Energy Fiji Limited

Supply Chain Office

Private Mail Bag,

Suva

It must also indicate the name and address of the tenderer on the reverse of the envelope.

All late tenders, unmarked Envelopes and envelopes without bidder's name and address on the reverse on the envelope will be returned to the Tenderers unopened. (Bids via e-mail or fax will not be considered).

The bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act and must have the most current Tax Compliance Certificate.

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

Bidders are requested to submit a:

- **Valid Tax Compliance Certificate**
- **FNPF Compliance Certificate**

The Tender Bids particularly the “Price” must be typed and not hand written.

(Tender Submission via email or fax will not be accepted)