

**SUPPLY OF CISCO EQUIPMENT FOR THE NEW EFL'S  
SIGATOKA SUBSTATION PROJECT**



**MR196/2021**

## **1.0 THE COMPANY – EFL**

The EFL is a wholly Government of Fiji owned private company that was established under the Electricity Act of 1966. EFL is responsible for the Generation, Transmission, Distribution, and Retail of electricity on the larger islands, Viti Levu, Vanua Levu, Taveuni and Ovalau, which account for some 90% of the country's population. Installed generation capacity is approximately 237MW, comprising 80MW Monasavu Hydro Scheme and 40MW Nadarivatu Hydro Scheme in Viti Levu and about 112MW of diesel capacity in 14 stations on the four main islands. Of the diesel capacity 92MW is on Viti Levu which has been supplementing the Monasavu hydro scheme for the Viti Levu Interconnected System (VLIS) which has been reaching maximum demand of 152MW. Transmission is provided by 145km of 132kV lines (connecting Wailoa & Nadarivatu Hydro Power Stations to the East and West coasts) and about 350km of 33kV lines. Power distribution is by means of more than 8,000km of 11kV and 415/240V lines.

## **2.0 Purpose and Description of the Tender**

The purpose of this Tender is for Energy Fiji Limited (EFL) to secure the service of a “Contractor/s or Supplier/s” for the **SUPPLY OF CISCO EQUIPMENT FOR THE NEW SIGATOKA SUBSTATION PROJECT.**

The successful Bidder will be required to enter into a “Contract Agreement” with EFL for the provision of this equipment/service.

## **3.0 Scope of Works**

- a) The successful Bidder shall be responsible for the supplying of the require items and/or materials, based on the expected Technical Specification Requirements, as stated in the Equipment Technical Specification Requirements Section of this document.
- b) The successful Bidder shall be responsible for the delivery of these Cisco Equipment to the EFL's Navutu Depot, at Lautoka.
- c) Bidder shall certify that all items or materials (components/parts/assembly/software etc.) shall be original and that no refurbishment, duplicate, second-hand components, parts, assembly, or software are being used or shall be used.
- d) The Bidder shall be liable in any case of physical damage or loss of information, and those relating to copy right and Intellectual Property Right (IPR's) that are caused due to activation of any such malicious code, software, or embedded applications.

- e) The Bidder shall be responsible for providing all materials and services, specified or otherwise, which are required to fulfil the intent of ensuring operability, maintainability, and reliability of the complete equipment covered under this specification within his quoted price.
- f) The successful Bidder must be able to comply with the expected Delivery Timeline, which is **Four Weeks from the date of receiving the EFL Purchase Order**.
- g) The successful Bidder must be able to provide an expected warranty period of not less than 12 months, after successfully delivering of all bided equipment/materials.

#### 4.0 TECHNICAL SPECIFICATION REQUIREMENTS

<b>No.</b>	<b>Item Description</b>	<b>Item's Technical Specification Requirements</b>
<b>1</b>	<b>Cisco Industrial Ethernet 5000 (IE5000) Switch</b>	<ul style="list-style-type: none"> <li>• Product Number: IE-5000-12S12P-10G</li> <li>• Total Ports: 28</li> <li>• SFP Uplink: 4 x 10G</li> <li>• SFP Fiber Ports: 12 GE</li> <li>• Copper POE Ports: 12GE</li> <li>• Default Software: IP Services Base License</li> </ul> <p><b><u>Hardware</u></b></p> <ul style="list-style-type: none"> <li>• 1GB DRAM</li> <li>• 256MB on-board flash memory</li> <li>• 1GB removable SD flash memory (included)</li> <li>• Mini-USB connector</li> <li>• RJ45 traditional console connector</li> <li>• GPS antenna interface – GPS antenna input</li> <li>• Analog timing I/O interface – for analog IRIG support</li> <li>• Digital Timing I/O interface – for digital timing such as IRIG-B TTL</li> <li>• Alarm I/O: Four alarm inputs to detect dry contact open or closed.</li> <li>• Accessories: SD-IE-1GB – spare SD Card</li> </ul> <p><b><u>Physical Specifications</u></b></p> <ul style="list-style-type: none"> <li>• Dimensions (H x W x D): 4.45 x 44.5 x 35.6 cm</li> <li>• System Weight: Without power supply – 6.21kg</li> <li>• Power Supply: 2x PWR-RGD-AC-DC-H (For 110VDC and 240VAC Modules)</li> <li>• Power Consumption: Maximum of 90W not including POE consumption</li> </ul>

		<p><b><u>Cisco SFP Modules</u></b></p> <ul style="list-style-type: none"> <li>• GLC-LX-SM-RGD= (10km)</li> <li>• GLC-EX-SMD= (40km)</li> <li>• SFP-10G-ER= (40km)</li> <li>• SFP-10G-ZR= (80km)</li> </ul>
<b>2</b>	<b>Cisco Industrial Ethernet 4010 Switch (IE4010)</b>	<ul style="list-style-type: none"> <li>• Product Number: IE-4010-16S12P</li> <li>• Total Ports: 28</li> <li>• SFP Uplink: 4 x GE</li> <li>• SFP Fiber Ports: 12 GE</li> <li>• Copper POE Ports: 12GE (all copper ports support speed negotiation to 10/100/1000 Mbps and duplex negotiation)</li> <li>• Default Software: LAN Base</li> </ul> <p><b>Hardware:</b></p> <ul style="list-style-type: none"> <li>• 1 GB DRAM</li> <li>• 128 MB onboard flash memory</li> <li>• 1-GB removable SD flash memory card</li> <li>• Mini-USB and traditional RJ-45 console connector</li> </ul> <p><b>Accessories:</b></p> <ul style="list-style-type: none"> <li>• SD-IE-1GB= - Spare SD card</li> <li>• L-IE4000-RTU= - Electronic RTU IP services software license for 4010 switches</li> <li>• 21–in. and 23–in. ETSI rack mount brackets</li> </ul> <p><b>Power Supplies:</b></p> <ul style="list-style-type: none"> <li>• Product Number: 2x PWR-RGD-AC-DC-H (110VDC &amp; 240VAC Modules)</li> <li>• Wattage: 150W</li> <li>• Rated Nominal Input: AC 100-to-240V; DC 100-to-250V</li> <li>• POE Support: Yes</li> <li>• Max Power Consumption: Maximum of 70W not including PoE consumption</li> </ul> <p><b><u>SFP modules:</u></b></p> <ul style="list-style-type: none"> <li>• GLC-LX-SM-RGD= (10km)</li> <li>• GLC-EX-SMD= (40km)</li> <li>• GLC-ZX-SM-RGD= (80km)</li> </ul>
<b>3</b>	<b>Cisco Catalyst IR1101 Rugged Series Router</b>	<p><b>Hardware:</b></p> <ul style="list-style-type: none"> <li>• 4GB DRAM</li> <li>• 8GB physical flash memory</li> <li>• IP30 ingress protection rating</li> </ul> <p><b><u>Physical Specifications</u></b></p> <ul style="list-style-type: none"> <li>• Dimensions (H x W x D): 60 x 132.5 x 124.9 mm</li> <li>• System Weight: 1.02kg</li> </ul>

		<ul style="list-style-type: none"> <li>• Mounting Options – DIN Rail Mount</li> <li>• Power Supply: 12Vdc to 48Vdc (min – 9.6V &amp; max – 60V)</li> <li>• Power Consumption: Maximum of 12W</li> </ul> <p><b><u>Interfaces</u></b></p> <ul style="list-style-type: none"> <li>• Console – Mini type-B USB</li> <li>• WAN – Combo 10/100/1000 Gigabit Ethernet Port (RJ45 &amp; SFP) on the base platform</li> <li>• LAN – 4x 10/100Base-T Fast Ethernet Ports</li> </ul> <p><b><u>Serial Interface</u></b></p> <ul style="list-style-type: none"> <li>• Isolated RS-232 RJ45 DTE Port</li> </ul> <p><b><u>Serial Protocols</u></b></p> <ul style="list-style-type: none"> <li>• SCADA &amp; DNP3</li> </ul> <p><b><u>Cisco SFP modules</u></b></p> <ul style="list-style-type: none"> <li>• Ethernet SFP Modules <ul style="list-style-type: none"> <li>○ GLC-LX-SM-RGD (10km)</li> <li>○ GLC-EX-SMD (40km)</li> </ul> </li> </ul>

## 5.0 PRICE SCHEDULE

1. Tender No. : **MR 196/2021**
2. Name of the Tenderer with Address :
3. Signature with Designation & Seal of the Tender Form Issuing Authority

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### **DECLARATION:**

I/We have read and understood the Terms and Conditions in this form supplied to me/us and hereby declare that I/We accept the Terms and Conditions mentioned there in. I/We hereby quote our rates/prices for consideration based on the Scope of Works and the Technical Specification Requirements provided by EFL.

<b>Item</b>	<b>Description</b>	<b>Quantity Required</b>	<b>Unit Price (FJD VIP)</b>	<b>Total Price (FJD VIP)</b>
<b>1</b>	<b>Cisco IE5000 Switch</b>	2		
	SFP-10G-ER=	2		
	SFP-10G-ZR=	2		
	GLC-EX-SMD=	2		
<b>2</b>	<b>Cisco IE4010 Switch</b>	2		
	GLC-LX-SM-RGD=	2		
	GLC-EX-SMD=	2		
	GLC-ZX-SM-RGD=	2		
<b>3</b>	<b>Cisco Catalyst IR1101 Rugged Series Router</b>	5		
	GLC-LX-SM-RGD	6		
	GLC-EX-SMD	4		
<b>TOTAL PRICE (FJD VIP):</b>				

## **6.0 Eligibility / Selection Criteria of the Bidder**

- a) The Bidder MUST be a Local Contractor or Supplier who is well versed, and have proven record of supplying similar Items or Materials as stated in the Technical Specification Requirements.
- b) The Bidder MUST be a Legally Registered Company or Entity with a valid Business Registration Certificate with the Government of Fiji.
- c) The Bidder MUST be an FNPF Compliance and FRCS TAX Compliance, and MUST submit both Compliance Certificates with their Bid Document.
- d) For the proper, fair, and effective evaluation of all Bids, All Bidders MUST properly and clearly submit ALL required information.
- e)

## **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 EFL to make better use of the Supplier's product/s.
2. Include relevant manuals/drawings and instructions for proper care, handling, and installation of the supplied Items.

## **9.0 Product Information**

Bidders must include the following document together with their Bid:

1. Full Product Specification/Drawings and Diagrams.
2. 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 EFL. During the Warranty Period, defective parts shall be replaced by the supplier.

### **11.0 Price Validity**

The price shall remain valid for acceptance within 90 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, EFL may request the supplier for an extension in the period of the price 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**

EFL shall pay the Invoice amount in the local currency (FJD) to the Bank Account nominated by the Successful Bidder within 30 days of receipt of the Suppliers Invoice subject to the required item/service being delivered satisfactorily.

### **13.0 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 on the outcome after the completion of the Tender Evaluation Process.

The successful Bidder will enter into a "Contract Agreement" with EFL as mutually agreed. All Terms & Condition, and Pricing Details will be stipulated in the Contract Documents. The evaluation of the tender submissions will be weighted as such

<b>No.</b>	<b>Components</b>	<b>Weighting (%)</b>
1	Financial Components	40 %
2	Technical capability	40 %
3	Delivery timeframe	10 %
4	Proven background on undertaking similar works and good warranty period offered.	10 %





## **14.0 Submission of Tenders**

Energy Fiji Limited invites sealed tenders from reputable suppliers for the supply of CISCO equipment for the new EFL's Sigatoka substation.

**This tender closes at 4:00 p.m (1600hrs Fiji time) on Wednesday 3<sup>rd</sup> November, 2021.**

**Bidders are requested to submit electronic copies via TenderLink by registering their interest at: <https://www.tenderlink.com/efl>**

**This is due to COVID 19 restriction on movements. Therefore, EFL will not accept any hard copy submission to be dropped in the tender box at EFL Head Office in Suva.**

For more information or clarification please contact the Supply Chain Office on 3224360/9992400/9987085 or email us on [tenders@efl.com.fj](mailto: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.



**REQUIRED INFORMATION AND BID FORM**

***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: \_\_\_\_\_ **( Mandatory)**

10. **Provide a copy of Valid FNPF Compliance Certificate (Mandatory)**

11. **Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory)**

12. **Provide a copy of valid FNU Compliance Certificate (Mandatory)**

13. Contact Person: \_\_\_\_\_

I declare that all the above information is correct.

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Sign: \_\_\_\_\_ Date: \_\_\_\_\_