

25<sup>th</sup> July 2024

Energy Fiji Limited

Suva

**RE: Energy Fiji Limited**

**MR 247/2024 Re-installation and Commissioning of EFL's Wainisavulevu Rubber Dam.**

**Notice To Tenderers (NTT) No: 1**

This is a notification to tenderers on the additional information and updated been uploaded.

- Updated Scope of Works
- Updated Price Schedule
- Updated Compliance Checklist Declaration

Tenderers are to acknowledge this Notice to Tenderers No 1 with their tender submission.

Kind Regards



**Epeli Malo**  
**General Manager Generation**  
Energy Fiji Limited  
Mobile: 9991908

## 4 SCOPE OF WORK

The Contractor shall provide all labour, tools and equipment necessary for installation and commissioning of the EFL's Wainisavulevu Rubber Dam.

### 1. Anchor Bolts

- a. Removal of old anchor bolts with minimal damage to the concrete surface along the anchor bolt centerline.
- b. Supply of Stainless steel anchor bolts:
  - i. 217 qty x M30 x 450mm.
  - ii. 56 qty x M20 x 300mm.
- c. Supply of Two Part Epoxy for Embedment & Self-levelling grout (Please forward data sheet for products chosen).
- d. Installation of new anchor bolts according to anchor bolt template and manual drawings.
  - i. 217 qty x M30 bolts embedded in epoxy, approximately  $\text{Ø}35\text{mm} \times 330\text{mm}$  deep. Torqued to 400ft-lbs.
  - ii. 56 qty x M20 bolts embedded in epoxy, approximately  $\text{Ø}25\text{mm} \times 215\text{mm}$  deep. Torqued to 200ft-lbs.
- e. For concrete surface finishing along M30 anchor bolts centerline. Any high spots should be ground flat and low spots should be filled with self-levelling grout.

### 2. Air supply piping works from control building to gate system:

- a. Supply of 1 ½" (40mm) Schedule 40 seamless stainless steel pipes and fittings. Total quantity of fittings (elbows, unions, etc.) to be confirmed during site visit.
- b. Fabrication of 1 ½" (40mm) (Schedule 40 stainless steel pipes and fittings for
  - i. Single pipeline section, Gates 1-2.
    1. 2 qty x Stainless steel Reducing Tees - ½" x 1 ½" x 1 ½".
    2. 1 qty x Stainless steel Reducing nipple - 1 ½" x ¼".
    3. 1 qty x ¼" Stainless steel ball valve – PN10 (Purge valve).
  - ii. Double pipeline section, Gates 3-14.
    1. 24 qty x Stainless steel Reducing Tees - ½" x 1 ½" x 1 ½".
    2. 2 qty x Stainless steel Reducing nipple - 1 ½" x ¼".
    3. 2 qty x ¼" Stainless steel ball valve – PN10 (Purge valve).
  - iii. The location of the Purge valves and inclination of pipes will be confirmed during site visit.
  - iv. Other fittings for 1 ½" Air Supply pipes must be noted during site visit once pipe route is confirmed.
  - v. Supply and installation of Unistrut pipe supports. Secure Unistrut to concrete using M12 stainless steel expansion anchors. Note: The pipe supports and unistrut mounts that will be mounted on the weir crest must be stainless steel, whereas the remaining portions can be galvanized steel.
  - vi. The pipes are to be welded, along with union joints at selected locations for ease of assembly and maintenance.
  - vii. Carryout Pickling of full pipeline.
  - viii. Carryout Pressure testing of full pipeline according to ASME B31 or equivalent standards. Provide certificate and warranty (min 2 years).
- c. Supply and installation of hoses and fittings from ½" Brass air fitting on Air Bladder to the ½" reducing tees from Air supply lines.
  - i. Single pipeline section, Gates 1-2.

1. 2 qty x ½" 2-wire reinforced rubber hoses x Approx. 1800mm. S/S BSP (60deg cone) female swivel hose fittings: 1 end compact or short 90 deg, 1 end straight.
  2. 2 qty x ½" S/S BSP Nipple.
- ii. Double pipeline section, Gates 3-14.
1. 12 qty x ½" 2-wire reinforced rubber hoses x Approx. 1600mm. S/S BSP (60deg cone) female swivel hose fittings: 1 end-compact or short 90 deg, 1 end-straight.
  2. 24 qty x ½" S/S braided hose x Approx. 600mm. S/S BSP (60deg cone) female swivel hose fittings: 1 end 90 deg, 1 end straight.
  3. 12 qty x S/S male tee ½" x ½" x ½".
  4. 24 qty x ½" S/S inline check valve – PN10.
  5. 48 qty x ½" S/S BSP nipple.
- iii. Other fittings for ½" hoses must be confirmed during site visit.

**Note:**

1. All detailed drawings will be provided during site visit.
2. Test pressure and test procedure will be provided during site visit.
3. The route and total length of exterior piping and quantity of fittings to be confirmed during site visit.
4. Concrete to be flat within 3mm for 200mm 'Upstream' and 'Downstream' of Anchor bolt centerline. Concrete along the Anchor bolt centerline to be flat within 3mm in the 'Abutment-to-Abutment' direction and be level within 6mm in 'Abutment-to-Abutment; direction.
5. Surface mounted air supply pipes, electrical conduit shall be supported using unistrut mounts, pipe hangers, and stainless steel expansion anchors.

## 5 PRICE SCHEDULE

### MR 247/2024 Re-installation and Commissioning of EFL's Wainisavulevu Rubber Dam

Item	Item Description	Total Price
1	Removal of old Anchor Bolts	
2	Supply of S/S Anchor bolts i. 217 qty x M30 x 450mm. ii. 56 qty x M20 x 300mm.	
3	Supply of Two-Part Epoxy for Embedment and Self-levelling Grout.	
4	Installation of new Anchor bolts i. 217 qty x M30 bolts embedded in epoxy, approximately Ø35mmx330mm deep. ii. 56 qty x M20 bolts embedded in epoxy, approximately Ø25mmx215mm deep. iii. Concrete surface finishing on Weir crest.	
5	Supply of all Air supply pipes, hoses, fittings and pipe supports from Control building to Air bladder in Gate system.	
6	Fabrication and installation of Air supply pipes, hoses, fittings and pipe supports.	
7	Testing and commissioning	
<b>TOTAL (VIP)</b>		

**Notes:**

1. Technical;
  - a. The bids must as per the Technical Specifications in the Tender Documents. Bids that do not conform to the technical Specification will be disqualified
  - b. Tenderers shall provide proof of successful completion within the stipulated delivery period of similar contracts undertaken in the past.
  - c. Documentary evidence to prove that the items offered comply with the Technical Specification must be provided.
  - d. Contractor to verify all drawing measurements onsite.
  - e. The Supplier/ Contractor shall provide warrants for Goods or services for provided unless stated otherwise.
  - f. EFL's Engineer or his representative shall have the right to inspect and/or to witness test the Goods at the factory or place of manufacture, for their conformity to the specifications.
  - g. The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications
2. Financial;
  - a. In case of discrepancy between unit and total cost, the unit cost shall prevail
  - b. Any advance payment will require a bank guarantee. And this added cost will be beared by bidder

- c. The currency used in the tender bid prices must be indicated in the tender bid
  - d. Prices shall be fixed during the Supplier's performance of the Contract and not subject to variation on any account.
  - e. EFL financial terms are applicable for these works.
  - f. For Foreign Supplier, any On-Shore work with incur a withholding Tax of 15% e.g. commissioning, training etc.
3. EFL Energy Fiji Limited uses Federation Internationale Des Ingenieurs Conseil (FIDIC) Contract template. General conditions of this contract shall be governed by it.
4. EFL have right to split award, tender may be awarded to multiple suppliers. And Minimum order quantity (MOQ) will not be acceptable.
5. All clarification request must be sent 5 days prior to the deadline for submission of bids
6. Price Schedule must be typed and stamped on the bid submission.
7. Failure to submit required documents may affect bid compliance. Failure to submit mandatory items as stated in Compliance Checklist will result in non-compliance.
8. Contractor shall provide all materials, tools equipment and labour necessary to perform works.
9. A detailed work plan to be provided with expected date for the works.
10. Installation & Commissioning works must incorporate all cost incur for this activity e.g. travel, accommodation, visa etc.
11. All Sub-contractors to be used for any part of the works are to be declared.
12. Site Visit mandatory.

### 5.1 Compliance Checklist Declaration

I \_\_\_\_\_ of \_\_\_\_\_  
 located at \_\_\_\_\_ confirm that the bid submitted for  
 the following tender: MR 247/2024 Re-installation and Commissioning of EFL's  
 Wainisavulevu Rubber Dam bid complies with the mandatory bidder submission as stated  
 in Sub Clause 2.6;

	Yes	No	Details
<b>Commercial</b>			
Price Schedule			
Company Profile outlining financial and technical capabilities			
Detailed Methodology Should include: <ul style="list-style-type: none"> <li>o Method of bolt removal</li> <li>o Pickling details or suggested method</li> <li>o Hydrostatic test plan</li> </ul>			
Program [preferred Gantt Chart] (If Applicable)			
Payment Term			
Validity of bid [90 days required](Yes/No)			
Withholding Tax Inclusion (If Applicable)			
<b>Technical</b>			
Company's capabilities (resources, staff cv, etc.)			
Past Project/ Experience submission			
Welder Certifications and Names of welders			
Specifications/ Data sheets for Two-Part Epoxy			
Specifications/ Data sheets for Grout			
Specifications/ Data sheets for hoses, fittings and valves to be installed.			
<b>Scope of Works/ Supply</b>			
Statement of Exclusion or Amendment for Tender Specification (if Any)			

Note that these submissions are mandatory submission for a successful tender bid. This declaration must be signed and submit as well.

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

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

Company: \_\_\_\_\_

Sign Off: \_\_\_\_\_

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