

25th 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.
 - 217 qty x M30 bolts embedded in epoxy, approximately Ø35mmx330mm deep. Torqued to 400ft-lbs.
 - 56 qty x M20 bolts embedded in epoxy, approximately Ø25mmx215mm 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 1/2" (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 1/2" x 1/4".
 - 3. 1 qty x 1/4" 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 1/2" x 1/4".
 - 3. 2 qty x 1/4" 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.
 - 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.

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.

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- 2. 2 qty x 1/2" S/S BSP Nipple.
- ii. Double pipeline section, Gates 3-14.
 - 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 1/2" S/S inline check valve PN10.
 - 5. 48 qty x 1/2" S/S BSP nipple.
- iii. Other fittings for 1/2" hoses must be confirmed during site visit.

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- 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.

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