



**ENERGY FIJI LIMITED TENDER**

**TENDER NO: MR331/2018**

**Dismantling, removing and transportation of  
132kV/33kV transformer from EFL's Cunningham  
Road Substation to EFL's Kinoya Depot**

**TENDER NO: MR331/2018****Dismantling, removing and transportation of 132kV/33kV transformer from EFL's Cunningham Road Substation to EFL's Kinoya Depot**

The Energy Fiji Limited invites reputable contractors to tender for the Dismantling, removing and transportation of 132kV/33kV transformer EFL's Cunningham Road Substation to EFL's Kinoya Depot. The tender shall be on the basis of a lump sum contract based on firm prices.

EFL is seeking those **contractors who shall be able to ensure all works shall be complete by the 26<sup>th</sup> October, 2018.**

It is Mandatory for bidders to submit two (2) hard copies of bids in Sealed envelopes to the following location:

The Secretary – Tender Committee,  
Energy Fiji Limited Head Office,  
2 Marlow Street,  
Suva

The Tenders Should be Marked with the Following Details:

**“TENDER NO: MR331/2018 – “Dismantling, removing and transportation of 132kV/33kV transformer EFL's Cunningham Road Substation to EFL's Kinoya Depot”**

## COMPANY NAME AND ADDRESS

Further Information about this tender can be obtained from:

Tuvitu Delairewa  
General Manager Commercial  
2 Marlow Street, Suva, Fiji.  
Email: [TDelairewa@efl.com.fj](mailto:TDelairewa@efl.com.fj)  
Phone: 679 3224 185

A Mandatory Site visit will be held on Monday, **27<sup>th</sup> August, 2018 commencing at 10.00am** at ELF's Cunningham Road Substation.

The deadline for submission of Tenders shall be 1600hrs on Wednesday, **29<sup>th</sup> August 2018, Fiji Standard Time.**

Tenders received after the closing date and time as stipulated above will not be considered.

It is the responsibility of the bidder to pay the courier charges and all other costs associated with the delivery of the hard copy of the tender bid.

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## 1. SCOPE OF WORKS

This section covers the scope of work required for the safe removal of the transformer from its pad and relocation to new site at Cunningham Road Substation.

### 1. GENERAL DESCRIPTION

The following forms the scope covered in this tender:

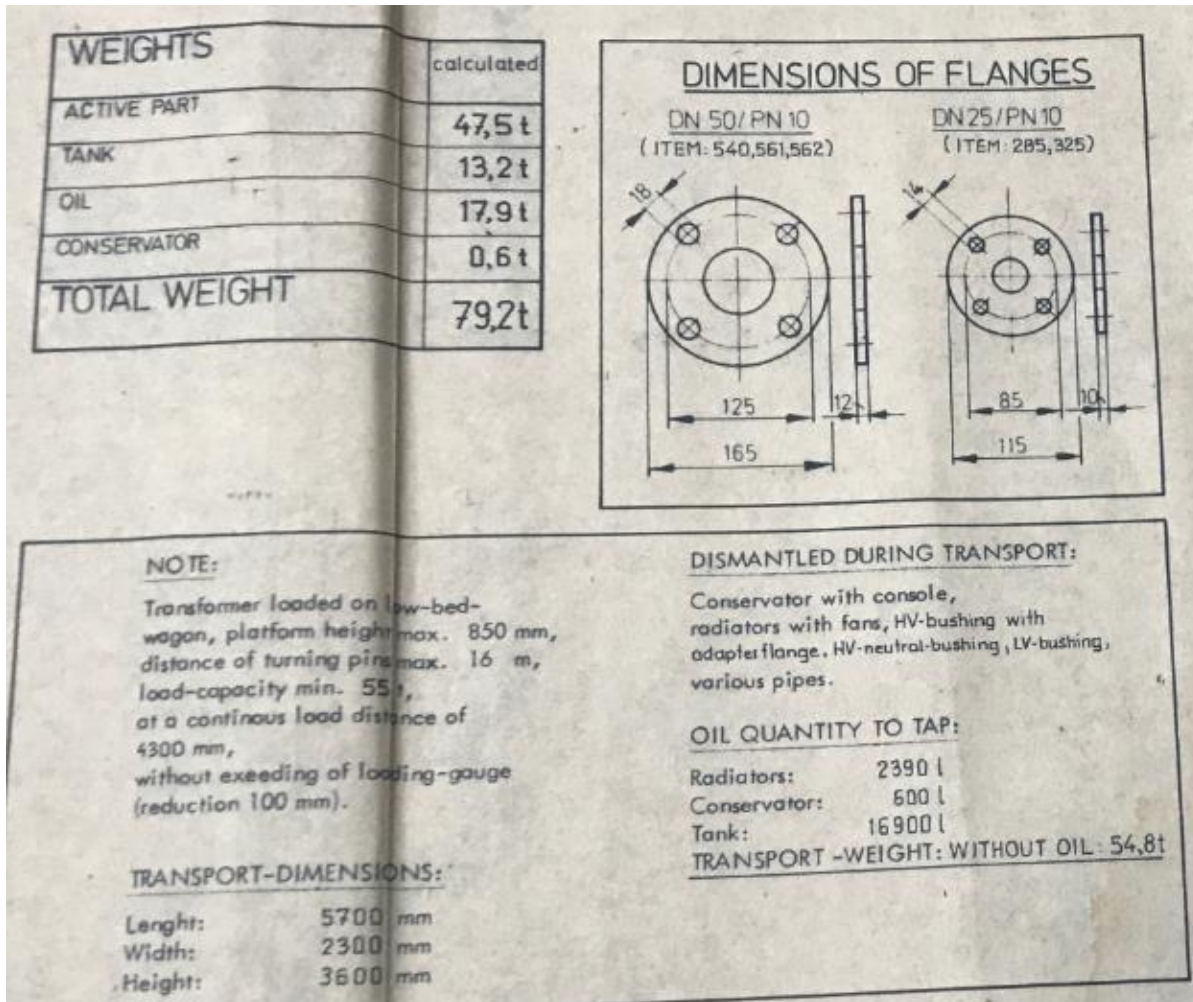
1. Remove all CT wiring, control wiring, AC and DC supply cables. Remove from conduit and secure them so that no water enters the cables. Place cable securely in the cable trench. Label all cables that are removed. Ensure all ferule numbers are secured and taped.
2. Remove the 33kV bus bar and all associated fittings. Place 33kV bus bar and all fittings in wooden crate and secure.
3. Remove 132kV bushing complete with current Transformer and place in wooden crate and secure for storage. Deliver to EFL Vuda Substation. Manufacture and supply 6mm steel flanges galvanized to cover all openings left after removal of the bushings. Install steel flanges using 6mm gas kits.
4. Remove 33kV bushing and place in wooden crate and secure for storage. Deliver to Vuda Substation. Manufacture and supply 6mm galvanized steel flanges to cover all openings left after removal of the bushings. Install steel flanges using 6mm gas kits.
5. De-tank transformer oil. Supply suitable tanks to store the removed oil (40,000L quantity) with structures. Place tank in EFL designated location at Cunningham SS. All tools and equipment to be sourced by the contractor. EFL will not provide any tools and equipment. The tank shall remain property of EFL.
6. Remove oil and complete conservator tank with fittings. Cover all opening on the conservator tank with flange. Cover all openings left after removal of conservator on the transformer tank with flanges.
7. Remove all transformer fans, place in wooden box, and secure for storage.
8. Drill 30mm diameter holes, 300mm deep x 6 locations on the pad after removal of transformer.
9. Remove diverter switch and place in wooden crate and secure for storage.
10. Remove all transformer radiators. Cover openings on the radiator and main tank with flanges.
11. Preparation of transportation:
  - Remove 5 fence post and associated chain link fence next to the transformer.
  - Using crane of appropriate size, lift the transformer tank from the pad, place on low bed truck, transport to EFL Kinoya Depot and off load at Kinoya Scrap yard.
  - Crane and low bed truck to be supplied by contractor. Bidder to provide procedure of the safe removal.
  - Reinstate the fence and posts remove.
12. Transport all the radiators and conservator tank to Kinoya Scrap Yard.
13. The supplier must source their own tools and equipment for this project.
14. All flanges to be of 6mm galvanized steel plates and to be manufactured, supplied and installed by the contractor. Only the gas kit will be provided by EFL. Supplier to also provide new bolts of the appropriate size and type to attached the flanges to cover the respective openings.
15. All crates for storage and transportation to be made of 25mm marine ply or wooden 3inch X 1 inch. All crates to be manufactured and supplied by the contractor.
16. Bidder to provide material listing of what needs to be removed.
17. Ensure the 33kV cables, Aux transformer and NER is not damaged during this exercise.

### 2. SAFETY AND SITE SUPERVISION

Since the substation is live with 132,000 volts, a safety induction shall be carried out for all contractors personnel. All works within the substation boundary shall be carried out under EFL staff supervision

### 3. TECHNICAL SPECIFICATIONS

- 1.1 The crane lifting capacity should be suitable to carry out the works.
- 1.2 There should be no spillage of oil when de-tanking. Any oil leaks must be rectified by the contractor.
- 1.3 Flange details



1.4 Transformer details

Total weight	79.2 Ton
Transport weight	54.8 Ton
Un tank weight	47.5Ton
Weight of oil	17.9 Ton

**4. INSPECTION AND TESTS**

- 4.1 The Authority’s Engineer representative shall have the right to inspect the works and to confirm conformity to the contract specifications.
- 4.2 Should any inspected works fail to conform to the specifications, the Authority may reject them and the Contractor shall make all alterations necessary to meet the specification requirements.
- 4.3 Nothing in this clause shall in any way release the Contractor from any other obligations under this contract.
- 4.4 Competency

The bidder must have experience in :

- a) controls and protection
- b) worked with 132kV Bushing removal and installation
- c) previous experience in high voltage Substation works
- d) previous experience in Transformer installation works

## **5. SITE CONDITIONS**

- 5.1 The site is located at Cunningham Road. The Contractor shall be deemed to have visited the site of the works to satisfy him/her as to the accuracy of all information supplied to the Tenderers and to the feasibility of the works.
- 5.2 The proposed location is in a Substation equipped with high voltage plants therefore all necessary Safety Gear must be worn by the Contractor's Staff at all times.
- 5.3 The Contractor may only enter the site upon provision of access by an Authorized EFL representative. The Contractor is not to execute any work without direct supervision from the EFL representative. The times for work will be during afterhours or during weekends.

## **6. SETTING OUT**

- 6.1 All tenderers shall inspect and examine the site, its surroundings, and shall satisfy himself before submitting his tender, as to the form and nature of the site, the nature and type of existing work, the quantities and natures of the work and materials necessary for the completion of the Works and the means of access to the site, the accommodation he may require, the availability, conditions and rates of pay of labour and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his tender.
- 6.2 The Contractor shall be responsible for the correct detailed setting out of the Works as indicated in the Tender Documents and shall, at his own cost, amend any errors during the progress of the Works arising from inaccurate setting out.
- 6.3 If a tenderer has any doubt as to the meaning of any portion of the Works, he shall when submitting his tender, include a statement of the interpretation upon which he replies and upon which his tender has been prepared and submitted.

## **6. MATERIALS, WORKMANSHIP AND PLANT**

- 6.1 Materials in all trades shall be new and the best of their kinds specified and necessary complying with relevant standards (Fiji, Australia, New Zealand or USA) where applicable and subject to approval or rejection by the Engineer.
- 6.2 The Contractor shall at all times ensure that adequate protection is provided to finished work and materials to be used in the construction of the work. Where necessary, make good any damage to property.
- 6.3 The Contractor shall provide all workmen, both skilled and unskilled, plant, equipment and materials necessary for the expeditious completion of the work.

**7. OCCUPATIONAL HEALTH AND SAFETY**

7.1 The Contractor shall comply with the Health and Safety at Work Act, 1996 and regulations and Amendments thereto and the Energy Fiji Limited HSE Policy.

**8. GENERAL FOREMAN**

8.1 The Contractor shall appoint a competent General Foreman who shall be constantly on the works during the progress of the same, to whom instructions may be given by the Engineer.

8.2 The Engineer may require the Contractor to dismiss the General Foreman or other person shall he be incompetent or shall misconduct himself or for any other good reason to be assigned by the Engineer to the Contractor.

**9. PROGRAM**

9.1 Within seven (7) days of acceptance of his tender, the Contractor shall submit to the Authority, for approval a Program showing the order in which he proposes to carry out the works.

**10. INSURANCE**

The Contractor is to effect the following insurance policies:

10.1 Contractor's All Risk Insurance - \$500,000

10.2 Public Liability Insurance - \$500,000

10.3 Workmen's Compensation - \$250,000

**11. PRICE AND PAYMENT**

11.1 The Contract Price is to be on a Lump Sum basis. The tenderer is to submit a breakdown of the various components of the project.

11.2 The Contractor's request for payment shall be made to the Authority in writing, accompanied by invoice(s) describing, as appropriate, and services performed, together with other documents as may be required by the Authority. Payments shall be made promptly by the Authority, within thirty days of submission of an invoice/claim by the Contractor.

11.3 The Contractor is eligible for payment after completion of the Contract. No partial payments will be made.

**12. VALIDITY**

12.1 The Tendered Price is to remain valid for a period of 60 days after the closing date of the tender.

**13. PRICE SCHEDULE**

No.		TOTAL PRICE (VIP)
1	Dismantling of transformer and storage of material	
2	De-tanking oil from transformer	
3	Removal of transformer and associated items and offloading at EFL's Kinoya Scrap yard	
	Total price for the scope of works	

**14. Selection criteria**

No	Criteria	Comments
1	HSE plan	
2	Insurance policies	
3	Crane lifting capacity	
4	Low bed truck size	
5	Conformance to all scope of works as per tender document	
6	Works to be completed within 2 weeks' time frame	

## **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 29<sup>th</sup> August, 2018.**

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

**MR 331/2018**

**Dismantling, removing and transportation of 132kV/33kV transformer from EFL's Cunningham Road Substation to EFL's Kinoya Depot**

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**