



FIJI ELECTRICITY AUTHORITY TENDER

TENDER NO: MR 290/2017

**Carry out Maintenance on Two (2) X 132kV/33kV
Power Transformers at FEA Cunningham Rd
Substation**

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The Fiji Electricity Authority invites reputable contractors to tender for the washing and painting of Two (2) X 132kV/33kV transformers at FEA Cunningham Substation. The tender shall be on the basis of a lump sum contract based on firm prices.

FEA is planning to have an outage 2nd and 3rd December and seeking those contractors, who shall be able to ensure all maintenance works shall be complete by 4th December, 2017.

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

The Secretary – Tender Committee,
Fiji Electricity Authority Head Office,
2 Marlow Street,
Suva

The Tenders Should be Marked with the Following Details:

“TENDER NO: MR 290/2017 – “Carry out Maintenance on Two (2) X 132kV/33kV Power Transformers at FEA Cunningham Rd Substation
”.

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@fea.com.fj
Phone: 679 3224 185

A Mandatory Site visit will be held on **Monday, 20th November, 2017 commencing at 9.00am**

The deadline for submission of Tenders shall be 1600hrs on **Wednesday 22nd November, 2017, 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.

1. SCOPE OF WORKS

This section covers the scope of work required to be carried out at Fiji Electricity Authority's Cunningham Substation. There are 2 auxiliary transformer pads and 2 power transformers to be worked upon.

1.1 GENERAL DESCRIPTION

The following forms the scope covered in this tender:

1. Water blast
 - a. 2 × auxiliary 132kV/415V transformer pads (TA1, TA2)
 - b. 2 × 132kV/33kV transformer pads (T1A and T2A).
 - c. Clean inside of bund wall and make free any blocked drain pipes
2. Apply oil degreaser and water blast 2 × 132kV/33kV transformers
3. Apply oil degreaser and water blast 2 × auxiliary 132kV/415V transformers
4. Carry out rust treatment on the rusted areas
5. Paint 2 × 132kV/33kV transformers :
 - a. Apply 1 layer of under coat suitable for 120°C.
 - b. Colour of undercoat to match the existing colour of transformer (light admiralty grey 381 697) and suitable for application of metal surfaces.
 - c. Apply 2 layer of final coat suitable for metal surfaces and stable up to 120°C.
 - d. Colour to match existing colour of transformer (light admiralty grey 381 697).
6. Contractor must utilize gun spray painting method to apply paint to the transformer.
7. All bushings, control cubicle, stainless steel pipes, name plates, concrete pad, PRD, fan motor and any other part/area of transformer as specified by engineer/technician on site must be covered and secured with masking tape before commencing with any painting works. The covering should be as such that no paint should enter and contaminate the covered areas.
8. The contractor must construct scaffolding full tarpaulin around the transformer to carry out painting works in confined space.
9. Provide 8 labels – same size as on existing Transformer 2 X T1A, 2 X T2A, 2 X TA1, 2 X TA2

2. ELECTRICITY, WATER, GAS AND OTHER SERVICES

1. Contractor to ensure 2 X water filled water tanks (2,000L) are included in the price.
2. The water blaster shall be engine driven

3. STANDARDS

All civil works shall be carried out in conformity with Fiji Building Code or the British Standard Institution. All electrical works shall be carried out in conformity to the IEC Standards in general. British or Australian standards may be applied where necessary. Any national or international standard may be used if such standards are not less exacting than corresponding standards IEC, BSI or Fiji Building Code. In all instances, a copy of the relevant standard adopted shall be forwarded to the Engineer.

4. 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 FEA staff supervision

5. TECHNICAL SPECIFICATIONS

- 5.1 **Paint** – both the undercoat and top coat paint should be suitable for power transformer application. Approval is to be sought by the Site Engineer before application.
- 5.2 All materials including paint, degreaser etc. is to be supplied by the contractor.

5.3 Gun Spray painting method is to be used for painting.

5.4 All tools and equipment is to be supplied by the contractor. FEA will not provide any tools or equipment.

6 INSPECTION AND TESTS

6.1 The Authority's Engineer representative shall have the right to inspect the works and to confirm conformity to the contract specifications.

6.2 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.

6.3 Nothing in this clause shall in any way release the Contractor from any other obligations under this contract.

7 SITE CONDITIONS

7.1 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 construction of the works.

7.2 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.

7.3 The Contractor may only enter the site upon provision of access by an Authorized FEA representative. The Contractor is not to execute any work without direct supervision from the FEA representative. The times for work are 8am to 4.30pm Monday to Thursday, 8am to 4pm on Fridays or afterhours as applicable and approved by Unit Leader Substation.

8 SETTING OUT

8.1 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.

8.2 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.

8.3 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 relies 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 Fiji Electricity Authority 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. MAINTENANCE AND DEFECTS

- 9.1 Period of maintenance shall be 1 year (12) calendar months after practical completion of works. All defects during this period shall be made good by the Contractor, at his cost.

10. CLEANING UP

- 10.1 On completion, remove all surplus materials from site and leave site in a clean and tidy condition.
- 10.2 The Contractor shall remove and cart away all rubbish and trade debris as it accumulates during the progress of the works.

11. PROGRAM

- 11.1 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.

12. INSURANCE

The Contractor is to effect the following insurance policies:

- 12.1 Contractor's All Risk Insurance - \$500,000
- 12.2 Public Liability Insurance - \$500,000
- 12.3 Workmen's Compensation - \$250,000

13. PRICE AND PAYMENT

- 13.1 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.
- 13.2 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.
- 13.3 The Contractor is eligible for payment after completion of the Contract. No partial payments will be made.

14. VALIDITY

14.1 The Tendered Price is to remain valid for a period of 120 days after the closing date of the tender.

15. PRICE SCHEDULE

No.		LUMP SUM FIXED PRIC VIP	TOTAL PRICE (VIP)
1	Wash and Paint 132/33kV Transformers at FEA Cunningham Substation		

16. Details

No.		Quantity	
1	Type of paint		Liters
2	Manufacturer of Paint		
3	Type of Degrease		Liters
4	Manufacturer of Degreaser		
5	Thinner type		Liters
6	Water Blaster Engine/Electric		
7	Water Blaster Model		
8	Scaffolding		L X W X H
9	Tarpaulin		L X W
10	Water hose		Length
11	Water tank		2,000L
12	Procedure to mask		
13	Procedure to Paint		
14	Number of hours to carry out all works		10 hours

Tender Submission - Instruction to bidders

It is mandatory for Bidders to upload a copy of their bid in the **TENDER LINK** Electronic Tender Box no later than **4:00pm, on Wednesday 22nd November, 2017**

To register your interest and tender a response, view 'Current Tenders' at: <https://www.tenderlink.com/fea>

For further information contact The Secretary Tender Committee, by e-mail TDelairewa@fea.com.fj

In additional, hard copies of the tender, one original and one copy must be deposited in the tender box located at the FEA Head Office, 2 Marlow Street, Suva, Fiji no later than **4:00pm, on Wednesday 22nd November, 2017**- Addressed as

Tender – MR 290/2017 Carry out Maintenance on Two (2) X 132kV/33kV Power Transformers at FEA Cunningham Rd Substation

**The Secretary Tender Committee
Fiji Electricity Authority
Head Office
Suva
Fiji**

- **Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and it is dispatched before the closing date and time.**

Tenders received after **4:00pm** on the closing date of **Wednesday 22nd November, 2017**

- will not be considered.
- Lowest bid will not necessarily be accepted as successful bid
- **It is the responsibility of the bidder to pay courier chargers and all other cost associated with the delivery of the hard copy of the Tender submission including any Duties/Taxes. Hard copies of the Tender submission via Post Box will not be considered.**