



**Fiji Electricity Authority**  
**Transmission Unit**  
2 Marlow Street, Suva

---

# TENDER DOCUMENT – MR 93/2017

---

**ACCESS ROAD UPGRADE TO TRANSMISION 132KV TOWERS IN THE NADRAU AREA**

### Access Roads Upgrade to 132kV Transmission Towers in Nadrau area

#### TENDER SPECIFICATION

The Fiji Electricity Authority (FEA) invites bids from reputable contractors for the upgrade of existing Access Roads to its Transmission Towers on the Wailoa – Nadarivatu - Vuda 132,000V Transmission Line. This document serves to define the extent of works to be carried out.

**Compulsory Site Visit** shall be organized by the FEA on **Wednesday 3<sup>rd</sup> May 2017**. Interested Bidders are to report at **08:30hrs at FEA Navutu Depot**. Bidders shall bring their own 4x4 vehicles for transportation to the site. Trip to the site is about 2 – 3 hours from Navutu, Lautoka. Site Visits shall be conducted by the Technical Officer Transmission and **attendance shall be compulsory and recorded by FEA and signed by the interested bidders. Bidders who do not attend this compulsory site visit shall be disqualified.**

#### SCOPE OF WORKS

The following is the scope of works for the restoration of 132kV Transmission Line Tower Access Roads:

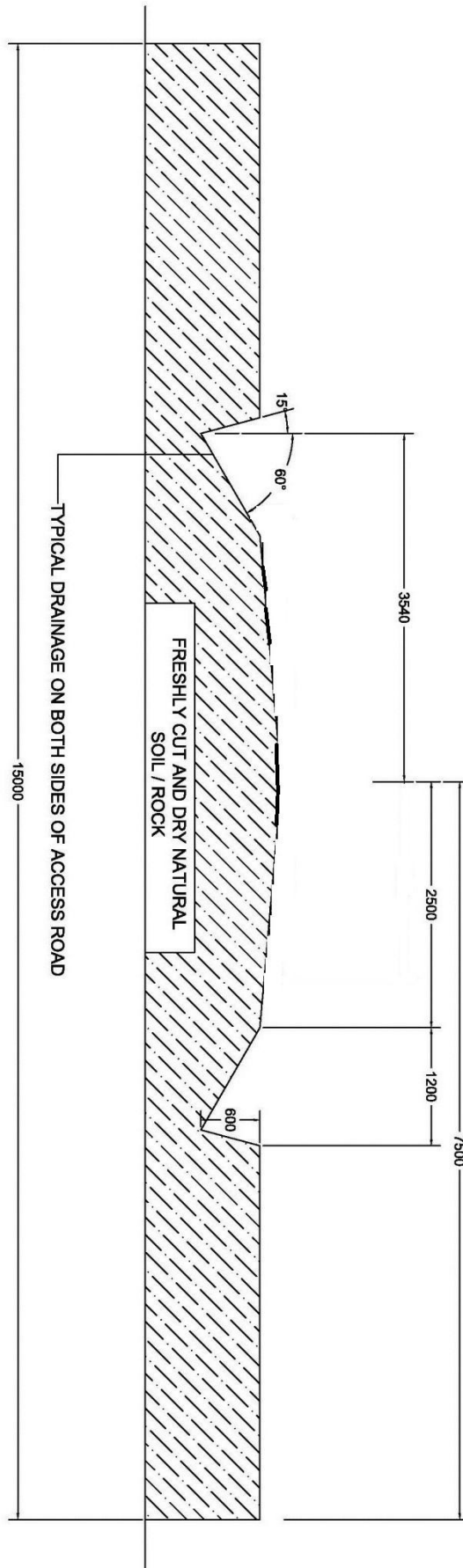
1. **Grading:** The existing access roads have had a first cut being carried out during the year 2015. Hence, the only scope of works shall be to carry out another round of grading on these roads in order to remove and dispose all Vegetation that has grown over this period.
2. **Crowning & Coning of Carriageway:** Carry out crowning / coning along the entire length of the access road carriageway. Crowned / Coned access road carriageway shall be a minimum of 5000mm wide. The typical carriageway cross section shall have minimum 5% to 10% slopes (crowning / coning), from the center line to both the edges, for immediate water drainage to the side edge drains. For those sections of the carriageway where one edge is higher than the other, then the above mentioned slopes shall be applicable from one edge to another. The carriageway surface shall be free of any mud and loose soil.
3. **Side Edge Drains:** Side Edge drains shall be desilted and re - formed running along both sides of the access road carriageway, wherever possible and as and were required and shall be provided throughout the entire length of the access road carriageway to drain water away from the access road carriageway, to a low point and discharged into an existing river or creek. All drains shall be formed in a manner to keep the water table lower than the carriageway and its edge drains. Soil excavated to form the edge drains shall not be put on the access road carriageway. Excavated soil shall be placed in such a manner that it does not wash back into the drains and/or the access road carriageway. The side edge drains shall smoothly integrate with the access road carriageway, and should not be a sudden/steep vertical drain. This shall ensure that any vehicles which accidentally slip into the drain can be easily towed out. Side Edge drains shall not encroach into the 5000mm wide access road carriageway, and shall be formed outside the carriageway boundary. Drainage costs/prices quoted by the bidders shall include the construction of new drainage and soil batter cutting/forming as and where required. The bidders shall verify for themselves, the quantities of new drainage, existing drainage and side batter cutting/forming during the site visits. Separate rates shall not be provided for de-silting existing drainage and cutting/forming new drainage and side batter slopes.
4. **Excavation of New Bench:** The existing access road between T132 and T132A has been partially washed away due to land-slide. Earthworks are required for the excavation of new 7m wide road carriage way bench on hill side along existing track between T132 and T132A.

### NOTES:

1. Schematic drawings for scope of works to be carried out shall be provided on the day of the site visit.
2. Bidders are to provide proof of ownership of machinery and equipment, such as LTA registration and third-party documents, and photographs of each machinery and equipment intended to be used on the project. If bidders intend to hire machinery and equipment from other parties, then bidders are to submit quotations for the same, together with LTA registration and third-party documents, and photographs of each hired machinery and equipment intended to be used on the project.
3. FEA desires the contractor to execute the works in an efficient and optimized manner to complete the works in the minimum possible timeframe. Multiple Works can be and shall be executed simultaneously. For example, One bulldozer can be carrying out the First-Cut, second bull dozer can be following the first and carrying out the Crowning & Coning, and one or more excavator(s) can be following behind carrying out the drainage and culvert installation works. The FEA desires the contractor to work 7 days a week if possible, and 6 days a week minimum in the worst case, and fully utilizing the entire day's daylight, if possible. Works shall be responsibly carried out by the contractor with minimal FEA supervision. For the purpose of this contract, **the FEA mandates supervision by FEA Transmission Unit personnel when the contractor is working within 50m proximity of the FEA's Transmission Towers.**
4. Liquidated Damages (LD) for delays in completion of works shall apply across each item defined in the scope of works. LD shall be applicable at the rate of 1% per day up to a maximum of 15%. The FEA shall consider loss of productive days due to inclement weather and other force majeure events, as defined by FIDIC Guidelines. The following time-frame shall be utilized for each item defined in the scope of works:

Workscope Item	Quantity	Contractual Timeframe for completion
Grading of Access Road Carriageway	Per 1km	4 Calendar Days
Crowning & Coning of Access Road Carriageway	Per 1km	2 Calendar Days
Side Edge Drains (both sides of access road carriageway)	Per 1km	2 Calendar Days
Excavation of New access road bench between Tower 132 and Tower 132A	Lump-Sum	7 Calendar Days

5. Landowners Consents and Sevusevu: The FEA shall liaise with the Landowners as and where required, and the contractor must seek and follow FEA guidance and accompaniment to observe the required traditional protocols of the land, as and where required. The cost of Yaqona for Sevusevu shall be borne by the contractor.



### AREA AND EXTENT OF WORKS:

Access Road to Towers 132A -144			
S.N.	Tower Numbers	Approximate Quantity of Works	Area Name
1.	132A	1.Total Anticipated Access Road Carriageway Length = 6.5km 2.Total Anticipated Drainage = 6.5 X 2 (both sides of access road)	Nadrau
2.	132		
3.	133		
4.	134		
5.	135		
6.	136		
7.	137		
8.	138		
9.	139		
10.	140		
11.	141		
12.	142		
13.	143		
14.	144		

### BIDDER'S PRICE SCHEDULES

- (i) Bidders are to compulsorily complete and submit the following price breakdown schedule for each stage, as per the following tables.
- (ii) Bidders shall submit any and all additional costs anticipated to be associated with the execution of the project.

<b>PROJECT COST SUMMARY</b>					
<b>Access Road to Towers T132A thru to T144</b>					
<b>Approximate Access Road Route Length:</b>					<b>6.5km</b>
S.N.:	Scope of Work as defined in Tender Specification	Unit of Measurement	Bidder's Unit Rate FJD \$ (VEP)	Anticipated Quantity	Lump Sum Price FJD \$ (VEP)
1.	<b>Grading</b> of Carriageway as per tender specification	meters		6,500m	
2.	<b>Crowning &amp; Coning</b> of Carriageway as per tender specification	meters		6,500m	
3.	<b>Side Edge Drains</b> as per tender specification (Both sides of access road carriageway as and where required)	meters		6,500m	
4.	<b>Excavation of new 7m wide road carriage way bench on hill side on existing track between T132 and T132A</b>	Lump sum	Not Applicable	Not Applicable	
<b>TOTAL: FJD \$ (VEP)</b>					



# Fiji Electricity Authority

## Transmission Unit

2 Marlow Street, Suva

---

### **BID DOCUMENTS SUBMISSIONS**

**This tender closes at 4.00pm (16:00hrs Fiji Time) on Wednesday 10th May, 2017.**

It is mandatory for bidders to submit **two (2) hard copies** of tenders in sealed envelopes.

**Courier charges for delivery of Tender Document must be paid by the bidders.**

The envelope bearing only the following marking:

**Tender – MR 93/2017 – Access Roads Upgrade to 132kV Transmission Towers in Nadrau areas**

The Secretary, Tender Committee  
Fiji Electricity Authority  
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 of the envelope will be returned to the Tenderers.**

The lowest bid will not necessarily be accepted as the successful bid.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360 or (+679) 9991587.**