

Tender No : MR59-2016

Tender Name: Vegetation Management for 33kV Transmission Lines

Bidder's Name:

Bidder's Address:

Bidder's Telephone Numbers:

Bidder's Email Address:

Fiji Electricity Authority is seeking proposals from FEA Trained and Certified Vegetation Management Contractors to carry out Pole Base Clearing on 33kV Sub Transmission lines.

WESTERN REGION LINES				
S.N.	Sub-Transmission Line Name	Spans	Approximate Total Length of Transmission Line	Lump Sum Price for Pole Base Clearing as defined in this Tender's Workscope. (VEP)
1	33kV Vatukoula-Tavua	53	4.15 km	
2	33kV Nacocolevu – Korolevu	96	10 km	
3	33kV Butoni - Nacocolevu	10	1.5 km	
4	33kV Sigatoka - Nacocolevu	18	3.5 km	
5	33kV Waqadra -Sigatoka	304	58 km	
6	33kV Vuda - Rarawai	143	32.4 km	
7	33kV Vuda – Pineapple Corner	28	6.5 km	
8	33kV Pineapple Corner – Vuda/Rarawai T-Off	24	2.3 km	
9	33kV Vuda - Waqadra	206	22.7 km	
10	33kV Vuda - Sabeto	32	7.2 km	
11	33kV Sabeto - Waqadra	44	7.8 km	
12	33kV Sabeto - Nagado	114	13 km	
13	33kV Rarawai - Vatukoula	203	20km	

1. **Additional Details on Lines Being tendered for Vegetation Management**

<u>Additional Details on Lines</u>							
FEEDERS	SINGLE POLE	H-POLE	3-POLE	K/M	TOTAL # OF POLES	TOTAL STRUCTURES	TOTAL SPAN
Vatukoula - Tavua	39	14	0	4.15	67	53	53
Nacocolevu - Korolevu	2	90	4	10	194	96	96
Butoni - Nacocolevu	0	10	0	1.5	20	10	10
Sigatoka - Nacocolevu	0	17	1	3.5	37	18	18
Waqadra - Sigatoka	118	186	0	58	490	304	304
Vuda - Rarawai	0	136	7	32.4	293	143	143
Vuda - Pineapple corner	6	18	3	6.44	47	28	28
Pineapple Corner to Vuda/Rarawai T-Off	14	10	0	2.3	34	24	24
Vuda - Waqadra	193	12	1	22.7	220	206	206
Vuda - Sabeto	4	24	4	7.2	64	32	32
Sabeto - Waqadra	33	9	2	7.8	57	44	44
Sabeto - Nagado	110	4	0	13	122	114	114
Rarawai - Vatukoula	162	38	3	20	247	203	203

By providing this information the FEA does not take liability of the actual conditions in field during site visits. The bidders / contractors shall verify the actual conditions and the geographic terrain. The bidders shall self-evaluate the realities in the field and submit firm prices. **No variations shall be entertained.**

2. **Health and Safety Plan Requirements.**

It is mandatory for the bidders to complete and submit a copy of the attached “FEA Contractor Health and Safety Plan Template (Document No. HSE41C02, HSE41C03, HSE41C04, HSE41C05, HSE41C12, HSE41C13)”. **Failure to submit completed attached HSE documents shall possibly disqualify the bid.** An electronic copy (word document format) shall be made available upon the bidder’s request and can be provided by email. Interested bidders may request this document from FEA personnel conducting the site visit.

- **Bidders to include photocopies of FEA issued ID cards for workers/personnel who have attended the FEA VM Training Policy and Refresher Courses.**

3. **Site Visit Requirements.**

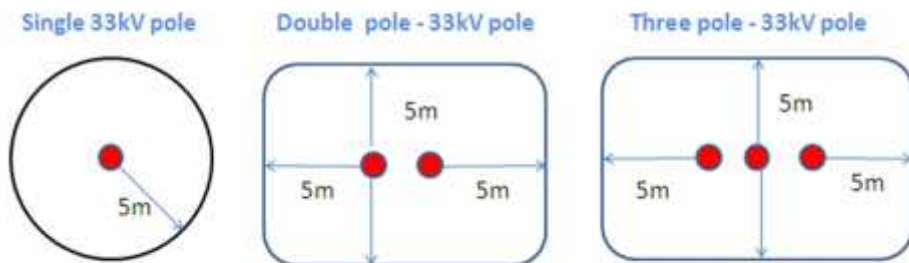
The site visit requirements for this tender are **compulsory and attendance shall be recorded.** Interested bidders shall provide their own 4x4 Transport and shall not ride in FEA vehicles.

SITE INSPECTION DATE & TIME: 8:30am on Wednesday 29nd June, 2016. Interested Bidders are to report to Technical Officer Transmission in FEA’s Navutu Depot, Lautoka. Cell Phone: 9999299.

4. SCOPE OF WORKS – Vegetation Management

- 4.1. Pole base clearing of all creepers, grass from each pole and stay wire base **5m radius around each pole**. Pole base clearing shall include the weedicide spraying of the pole base area (5m radius from each pole), using an FEA approved weedicide such as Gramoxone / Paraquat or Round-Up / Glyphosate.
- 4.2. Clear ALL vegetation **growth by the root/ground**.
- 4.3. All works shall be supervised and inspected by FEA.
- 4.4. Report on any landslide area for slope stability.
- 4.5. Guidelines for execution of works – FEA Vegetation Management Policy
- 4.6. Digging of drain as and where required to divert water away from Pole Base

Pole Base Clearing



5. PROGRAM FOR THE EXECUTION OF WORKS:

- 5.1.1. The anticipated date for **contract signing and commencement of works is by July 11th 2016**.
- 5.1.2. **Contractual date for completion of Pole Base Clearing for all enlisted lines shall be September 10th 2016, OR a maximum duration of 2 Calendar Months from date of Contract Signing and contractor having received an FEA Purchase Order [whichever date comes earlier]. Failure to complete the works within this timeframe shall result in the contractor being charged liquidated for the delays as defined in Clause 15 of this document.**
- 5.1.3. Bidders are to **compulsorily submit** a detailed work program for completion of works on each 33kV Transmission Line, and a detailed list of personnel, equipment, vehicles and resources associated with executing works on each power-line in relevance to the submitted work program. Contractor shall be required to simultaneously execute works on multiple lines, with multiple teams / gangs, in order to meet the project's completion timeline.

6. PRICE BREAKDOWN SCHEDULE FOR EACH ENLISTED 33kV TRANSMISSION LINE

25%, payable in parts, upon completion of 25% of works on each Transmission Line.

7. FEA Representative Duties

- a. Shall obtain necessary consent from property owner and obtain such consent in writing, if required. Failure to obtain this consent, a three [3] day written notice shall be issued in accordance to section 37 of the Electricity Act.
- b. Conduct an inspection of the site in question where the Work will be carried under this Agreement and ensure to jointly identify all risks and draw a safe work program before the

Contractor is allowed to cut trees. Unit Leader Transmission from Network Division of FEA will issue a permit to the Contractor to start work.

- c. Organise power shutdown where the tree branches are directly above live high voltage lines and within falling distances from the live high Voltage power line. Branches touching live lines shall be treated as if they are “alive”.
- d. Communicate to the customers in areas affected by the shutdown.
- e. Organise and carryout contractor training.
- f. Calculate any crop compensation payable to property owners.
- g. Carry out regular safety audits.
- h. Carry out progressive inspection of work completed.

8. **Shutdown Requests**

Pertaining to requirements of work scope, FEA shall, at the request of the Contractor allow for an outage at a particular site in order for the contractor to carry out the work.

The request is to be given to FEA’s Representative in an approved form (Work Program shall be sufficient), no less than 10 working days before any Commencement of Work. The Contractor shall ensure that proper approval is in place and in absence of such approval the Contractor shall not commence any work.

FEA’s Representative shall then:

- (a) make arrangements for an outage in the area in conjunction with the National Control Centre;
- (b) make necessary arrangements to inform affected customers;
- (c) inform the Contractor of the date and time for the outage;
- (d) Organise authorised personnel to carry out switching on the set date.

9. **Contractor Responsibilities**

- (a) The Works as completed by the Contractor shall be wholly in accordance with the Contract and comply with the **FEA Vegetation Management Policy** as defined in this tender document and the Contract. The Works shall include any work which is necessary to satisfy FEA’s Requirements, Work Program and Schedules, or arises from any obligation of the Contractor, and all works not mentioned in the Contract but which may be inferred to be necessary for stability or completion or the safe, reliable and efficient operation of the Network.
- (b) The Contractor shall execute and complete the Works within the Time of Completion, and shall remedy any defects within the Contract period.
- (c) The Contractor shall provide all labour, materials, tools and equipment necessary for the execution, completion of works and remedying of defects. The contractor shall provide his employees all the necessary Personnel Protective Equipment (PPE) in order for the job to be executed.
 - i. **Contractor’s failure to provide PPE, or the contractor’s employee’s failure to utilise the PPE shall result in FEA issuing the contractor with a Notice to Correct Health and Safety Violations, and a copy the same shall be sent to the Ministry of Labour, Industrial relations and Employment, for each instance of violation encountered.**
 - ii. **The contractor shall not borrow any tools, equipment or PPE from FEA teams carrying out the works supervision. The contractor and/or his employees shall not utilise FEA transportation.**

- (d) Before commencing any Work, the Contractor shall satisfy himself regarding FEA's Requirements. The Contractor shall take full responsibility for the adequacy, stability and safety of all Site operation and of all the Works. These shall include but not be limited to:
- i. Ensure not to take any risks where there is tree branches touching or above low or high voltage power line or where the tree is within falling distances from the low or high voltage power line. The Contractor shall immediately notify the FEA representative of findings of such trees and shall not cut that particular tree [s] in question.
 - ii. Ensure that when using chainsaws to be operated by a trained and competent person certified by the Ministry of Forestry, from a platform or on the ground.
 - iii. Authorise Contractor employee to attend the Network Contractor Training, OHS induction.
 - iv. The Contractor shall submit to FEA a list consisting of all those workers who will be deployed at the Work site. The precondition of deploying these workers is that driver shall have a current driver licence and the chainsaw operator needs to have current certification from Fiji Forestry Training Centre to certify that he is able to operate a chainsaw. The Contractor shall provide a list of all its workers whether employed or hired three working days before commencement of Work under the Contract. The Contractor and FEA representative will agree to a list of these.
 - v. Ensure adequate safety signage at the work and road side and to facilitate traffic management.
 - vi. Maintain and comply with the OHS Act.
 - vii. Clear out all debris at the Work site.
 - viii. Submit handover Completion Certificate.
 - ix. The contractor must ensure good relationship is maintained with the member of the public and the landowners.
 - x. **The contractor shall make good any damage to FEA assets, other public or private property, farm or crop during the execution of the Work.**
- (e) The Contractor shall send all communications to the FEA's Unit Leader Transmission and copy of the same to the FEA's Technical Officer Transmission.
- (f) The contractor is solely responsible for the quality of works, compliance with the tender's workscope and quality requirements. The FEA's presence on site does not indemnify the contractor from delivering quality works as per tender specification and the contract's requirement. The Unit Leader Transmission or thereby explicitly delegated representative, shall inspect the quality of works and signoff on completion certificates.

10. **Safety Measures at Work Site**

The contractor shall comply with all applicable safety regulations while carrying out the work on site. This includes but not limited to;

- a) Appropriate and adequate safety training provided to its labourers and machine operators to safely execute the work
- b) Appropriate use of personal protective equipment such as steel capped boots, helmets, safety harness, etc.
- c) Sufficient caution signs displayed on the road next to work area ensuring traffic flow and public access is controlled
- d) First aid facilities and a trained first aider to be available on site at all times

The contractor will solemnly be responsible for any incident or accident resulting from either negligence or omission of the above safety requirements

11. **Protection of Environment**

It is the contractors' responsibility to ensure all reasonable steps are taken to ensure protection of the environment and limit the damage and nuisance to property and people resulting from pollution, noise and other results from operation.

This also includes clearing and removing all branches, trees and debris from the site together with proper disposal upon completion of work.

Failure to adhere to the above will solemnly be the contractor's responsibility

12. **Landowners**

The contractor will be responsible for offering of "Sevusevu" to the landowner prior to actual commencement of work as a sign of respect. FEA shall accompany the contractor to the ceremony

13. **Commencement & Completion of Work**

The commencement and completion for each stage of work shall strictly be adhered as per work plan

14. **Extension of Time for Completion**

The Contractor may apply for an extension of the Time for Completion if it is or will be delayed either before or after the Time of Completion in any of the following events:

- a. a force majeure event (defined as an event beyond the control of FEA and the Contractor, which makes it impossible or illegal for a party to perform)
- b. physical conditions or circumstances on the Site, which are exceptionally adverse and were not (by the Base Date) foreseeable by an experienced contractor, or
- c. Any delay, impediment or prevention by FEA.

If the Contractor intends to apply for an extension of the Time for Completion, the Contractor shall give written notice to the Unit Leader Transmission and copied to FEA's Technical Officer transmission, of such intention as soon as possible and in any event within 7 days of the start of the event giving rise to the delay, together with any notice required by the Contract and relevant to such cause

15. **Liquidated Damages for Delay**

If the Contractor fails to comply with the agreed Work Program and fails to meet agreed project deadlines, the Contractor shall pay to FEA the relevant sum of liquidated damages as such stated as 15% of the contract amount charged at the rate of 1% for every day's delay outside the Work Program except in a Force Majeure situation and/or the delay is not the fault of the Contractor. The Liquidated damages shall be applicable to the full or any part of the project, as broken down in the schedule of payments.

16. **Inspection on Completion of Work**

FEA shall carry out inspection in accordance with this clause and the **FEA Vegetation Management Policy**. The Contractor is to notify and arrange a site meeting with FEA's Representative no more than 1 working day after the completion of works.

If the Works, or a Section, fails to get an approval from FEA's Representative, the Contractor will not be allowed to progress further. FEA's Representative shall notify the Contractor to rectify the defects and re-schedule the site inspection.

The Contract shall not be considered to be completed until the Completion Certificate has been signed by the Contractor and accepted by FEA's representative, stating the date on which the Contractor completed his obligations to FEA's satisfaction.

The Completion Certificate shall be given by the Contractor within five (5) working days after completion of each stage and the expiry of the Contract Period, or as soon after such date as the Contractor has completed all the Works, including remedying any defects.

Only the acceptance of the Completion Certificate by FEA shall deem to constitute approval of the Works.

17. Contract Price and Payment

17.1 Contract Price

Unless otherwise stated:

- a. payment for the Works shall be made as stated in the Schedule of Payment
- b. The Contract price shall not be adjusted for changes in the cost of labour, materials or other matters; and
- c. The Contractor shall pay all duties and taxes in consequence of his obligations under the Contract, and the Contract Price shall not be adjusted for such costs.
- d. No Variations shall be entertained.

17.2 Payment

Unless otherwise stated,

- a. FEA shall pay the amount in accordance with the Schedule of Payment and Work Program;
- b. The Contractor shall furnish an invoice and submit the Completion Certificate for each stage of payment; and
- c. The payment to the Contractor shall be made by cheque.
- d. All payments to the Contractor will be made within 30 days from date of receipt of the invoice and supporting documents

18. Notice to Correct

If the Contractor fails to carry out any obligations, or if the Contractor is not executing the Works in accordance with the Contract, FEA's Representative may give notice to the Contractor requiring him to make good such failure and remedy the same within a specified reasonable time

19. Insurance for Works and Contractor's Equipment

During the Work, and through to the date of Completion of all Works while any employee of the Contractor are present at the Site, the Contractor shall provide and maintain, through purchase or its standard insurance program, including provisions for self-retention, the insurance coverage listed below or its equivalent:

19.1 Workers' Compensation

Workers compensation insurance in the amount of FJD\$250,000.00, that the Contractor shall self-insure against workers compensation perils and to comply with qualification, and requirements of all applicable workers compensation laws

19.2 Comprehensive General Liability Insurance

Comprehensive general liability insurance, covering Contractor, its employees and Third Party for all of Contractor's operations hereunder, including all activities at the Work Site, including, but not limited to, bodily injury, property damage, premises operations, elevators, products, completed operations and blanket contractual coverage with limits of not less than FJD\$500,000.00 combined single limit

Insurance Policies

Policy Type	Value	Date of issue	Expiry Date	Insurance Company
Workers Compensation	\$250,000.00			
Public Liability	\$500,000.00			

Contractor to submit proof of current insurance with tender bid documents.

List of Approved Workers who will be working at the Work Site

List of Contractor's employees and occupations enlisted for Vegetation Management

Occupations may possibly be: Supervisor; Assistant Supervisor; Driver; Chainsaw Operator; Labour; etc

No.	Name of Employee	FEA VM TRAINING ID CARD #	FNPF Number	Occupation
1.				
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20.				

Contractors are to fill and submit the attached FEA HSE Document Form number HSE41C01 together with the bid documents. Failure to do so may result in the disqualification of the bids.

20. **Lodgement of Tenders in sealed envelopes marked**

It is mandatory for Bidder's to submit 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 FEA Head Office, 2 Marlow Street, Suva, Fiji.

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

This tender closes at 4:00pm, on Wednesday 6th of July, 2016.

Each tender shall be sealed in an envelope with:

The envelope bearing only the following marking:

**Tender- MR59/2016 – Vegetation Management - POLE BASE CLEARING FOR 33kV
TRANSMISSION LINES**

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.

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