

Tender No. MR 38/2016
Tender Name High Voltage Zone Substation - Weed Management and Cleaning Tender

Fiji Electricity Authority (fea) is seeking sealed tender proposals from Fea certified suitable contractors to carry out monthly weed management in its high voltage zone substations and switchyards yards in the Central, Western, Nadarivatu and Wailoa and Northern Regions which includes inside, outside to perimeter fence, and around electrical substations and associated facilities, cleaning of toilet facilities and inside the substation building . The zone substations are as follows:

Central - 12

Korolevu Substation, Deuba Substation and Switchyard, Wailekutu Substation, Hibiscus Park Substation, Suva Substation, Vatuwaqa Substation, New 33kV Kinoya Substation, Kinoya 33/11kV Transformer yard, Sawani Substation and Switchyards, Nausori Substation, Komo Park Substation, Cunningham Rd Substation and Switchyard and Knolly Street Substation.

Western - 16

Sigatoka Substation and Switchyard, Nacocolevu Substation, Maro Switchyard, Natadola Substation, Sabeto Switching Station, Nagado Substation, Qeleloa Substation, Waqadra Substation, Vuda NCC Substation and Switchyard, Vuda RCC Switchyard, Denarau Substation, Pineapple Corner Substation and Switchyard, Lautoka Switching Station, Tavua Substation, Rarawai Substation and Vatukoula Substation.

Wailoa - 5

Nadarivatu Switchyard, Nadarivatu Transformer yard, Wailoa Substation and Switching station, Wailoa Transformer yard and Wainikasau yards.

Northern - 4

Dreketi, Savusavu, Seqaqa and Cawaira Substation and Transformer Yard.

Each substation has an internal fence and outside fence within the boundary pegs.

1. SCOPE – TENDER DOCUMENTS AND TENDER ADMINISTRATION

(a) Inside fence to fence (internal fence)

Zone substations provide a big challenge for weed management due to a requirement that the interior of the substations be kept weed-free from fence to fence due to electrical hazard. The internal fenced is housed with power transformers and associated switchgears and galvanized structures.

The land of yard should be treated with such chemicals, which prevents land fertility in the yards permanently and does not degrade the existing copper earthing conductors. In addition all spraying shall be done as such that does not damage the chain link fence in the process. A combination of pre-emergent and post-emergent herbicides is used to control the weeds.

- a) Hand pulling of weeds before weeds spray.
- b) Remove weed from inside yard and fence.
- c) Weed control herbicides on monthly basis
- d) Clean and clear all drainage facilities
- e) Remove and Dispose as per City/Town Council requirements
- f) Ensure all Fence has the signage placed every third post.
- g) Check and report for any damage to Fence and Gates by forceful entries

(b) Outside fence

The management of vegetation outside the substation and associated facilities will include:

- a) bare ground management of perimeter roads and parking areas
- b) control of weeds throughout property boundaries and outside fence by minimum 1m
- c) Mowing and hand pulling of weeds before weeds get large and numerous.
- d) Apply Herbicides monthly
- e) Clear fence from any weeds and creepers
- f) Cut and clear all trees within 10m boundary of the substation Fence.
- g) Clean and Clear ALL drainage facilities outside the substation.
- h) Ensure flood waters to not enter the Substation boundaries
- i) Remove and Dispose as per City/Town Council requirements
- j) Check and report for any damage to Fence and Gates by forceful entries

(c) Cleaning of toilet and wash room facilities

- a) Clean all Toilets using Harpic or Jif agent
- b) Ensure toilet rolls are available at all times
- c) Clean hand basin
- d) Mop entire area with detergent
- e) Ensure the hands cleaning liquid agent is available at all times and hanged on the walls
- f) Advise to FEA representative if the toilet not functioning and hand basin is leaking.
- g) Ensure refreshners is placed and replaced on a monthly basis.

(d) Clean and mop inside substation

- a) Vacuum all substation floor
- b) Broom, Clean Substation walls and Ceiling.
- c) Broom, Clean and Mop Substation Floor
- d) Ensure all Chequer plates are placed properly
- e) Wipe and clean with agents all control panels
- f) Ensure not touch any switches
- g) Broom, Clean Substation Storeroom.
- h) Broom, clean and mop Substation Battery room.
- i) Mop entire area with applicable detergent
- j) Report to FEA representative if the following are found :
 - a. Water present in the Substation, cable trench Battery and Storeroom
 - b. Rats, lizards and insects found in the room
 - c. Forceful entries

(e) Contractors Proposal to provide the following as part of Submission:

1. Methodology and scope to carry out weed management
2. Details Pre-emergent herbicides combined with post-emergent.
3. Procedure to carry out weed spraying using engine driven sprays plants
4. Risk and standards (Health Safety, environment and Control methods)
5. Hazard identification and control procedures

6. Check sheet for completion
7. At least four (4) Employee listing with previous at least 5 years' experience working in a High Voltage Substation.
8. Proper PPE e.g overall, safety boot, helmet and dusk mask.
9. Contractors must provide list of cleaning equipment.
10. Work Program including day(s) per substation.
11. Insurance policies
12. Contractors are requested to provide own transportation
13. Contractors are requested to visit all substations.

(e) Fea provides

1. "Safety watch", a technician who knows the electrical hazards; accompany them any time they are inside the station.
2. The hazardous areas (inside boundary fence) and non-hazardous (outside boundary fence) designing substation mappings
3. All work to be programmed between the normal time 9am to 4pm
4. Site visits and discussions prior to tender closing dates
5. "weather watch" fea will decide in consultation with contractors on cancellation of weed spraying as this is always weather dependent
6. Site visit and briefing is scheduled on
 - a) Monday 9am, 25th April (Central Substation) – starting from Kinoya
 - b) Monday 9am, 25th April (Central Substation) – starting from Cawaira Power Station
 - c) Tuesday, 9am 26th April (Western Substations) – Starting from Sigatoka Depot
 - d) Wednesday 9am 27th April (Wailoa, Wainikasau and Nadarivatu) at Wailoa Station

2. Lodgments of Tenders

All tenders are to be received before **1600hrs Wednesday 4th May, 2016**. Any tender received after the time/date will be returned unopened to the bidder.

Each tender shall be sealed in an envelope with marking:

**MR38 /2016 - High Voltage Zone Substation - Weed Management and Cleaning
Tender**

The secretary – Tender Committee
Fiji Electricity Authority
Private Mailbag
Suva

3. PRICING - NOTES

All prices quoted are in lump sum per substation Fiji dollars and V.A.T inclusive. Table to be submitted as part of TENDER. The Tender will be awarded for a 24 month period starting from June 2016 to June 2018.

Total Lump Sum

Region	Monthly Price (VIP)
Central	
Western	
Wailoa, Wainikasau and Nadarivatu	
Northern	

Company	
Signed By	
Name	
Date	

	<i>Criteria for Evaluation</i>	<i>Weighting</i>	<i>Score Range</i>		
			<i>10 - 8</i>	<i>7 - 4</i>	<i>3 - 0</i>
1	Years of experience in working in High voltage switchyard	15.00	Company has more than 10 years' experience	Company has 5 years' experience	Company has less than 5 year of experience
2	Company has experience in Similar projects	15.00	Company has done more than 10 projects of similar nature	Company has done 5 projects of similar nature	Company has done less than 3 projects of similar nature
3	Number of years of experience of key personnel to be involved in project. Bidder to submit list.	15.00	More than 10 years for most of the key personnel	Less than 5 years for most of the key personnel	Less than 5 years for most of the key personnel
4	List of tools and Equipment	15.00	Full list submitted	Partial list submitted	None
5	Insurance policies	15.00	Full list submitted	Partial list submitted	None
6	Herbicides and Detergent	10.00	Full list submitted	Partial list submitted	None
5	Methodology and Procedures	15.00	All methodology and Procedures submitted	Partial submission	None
	Total	100%			