

Tender No MR 73- 2016

Tender Name: Vegetation Management for Distribution Lines (Western: Ba, Lautoka, Nadi, Maro, Sigatoka and Korolevu)

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 and vegetation management clearing along the Distribution Lines (11kV, 415V, 240V) in Ba, Lautoka, Nadi , Maro, Sigatoka and Korolevu areas as specified in the table below.

WESTERN DISTRIBUTION LINES					
Distribution Line Name	Isolation Points	Area	Approximate Total Length of Distribution Line	Lump Sum Price for pole base and vegetation management clearing as defined in this Tender's Work scope. (VIP)	Expected date of completion
Votualevu Feeder	S358 to EOL	Carreras and Votualevu Area	25km		
	F5343 to EOL	Beverly Hills, Carreras, Malawai, Karta Ram Estate	20km		
Lavusa Feeder	F5471 to F5136	Nawaka, Taci	30km		
	F5136 to EOL	Togo Lavusa, Togo Masi, Qeleloa	25km		
Nawai Feeder	I557- S281- S282	Main line from Nadi Town end to Malolo including all small Teeoffs and LV teeoffs T4073, T4202, T2483, I600, T9289, T4331	4.5km		
	T2502 to EOL T4564 to EOL	Part of Korovuto, Carwash, Korovuto Primary School	3.6km		
Ba Feeder	F5294 to EOL	Vunato Industrial and whole of Kaleli	1.5km		
	F2062 to EOL	Whole of Field 4 Road	1.5km		
	F5012 to EOL	Whole of Naikabula	15km		
	F5013 to EOL	Whole of Buabua Road	24km		
	F5014 to EOL	Whole of Vatamai Road	3km		

	F5177 to EOL	Whole of Vitogo Police Post Road	2.5km		
	F5069 to EOL including T2070-EOL	Whole of Vitogo Village Naviyago Village, Reddy'S Farm	5km		
	F5016 to EOL	Whole of Vakabuli and Paipai	10km		
	F5017 to EOL	Naviyago Road	5km		
	F5019 to EOL	Drasa No. 18 and Drasa Dam Road	5km		
	F5020 to EOL	Drasa No.1 Road	3km		
	F2117 to EOL	Teidamu Indian School	1Km		
	S214 to S215	From Tuvu to Raviravi- All HV anf LV tee-offs	20km		
	S215 to S216	From Raviravi to Karavi All HV and LV tee-offs	20km		
	S216 to S217	From Karavi to Navau- All HV and LV tee-offs	10km		
Hospital Feeder	I316, S202	Waiyavi/Simla: Naceva St, Cakau St, part of Vomo St, Waya Street,	3km		
	S202, S203	Simla, Tavakubu Rd, Natakowaqa, Top line	8km		
Waiyavi Feeder	3J10, S201, S205, F5072	Waiyavi	3Km		
	S205, S201, F5072, I376.	Sukanaivalu Rd, Drasa Vitogo	5Km		
	F5004	Tomuka	3Km		
	I376, S366, S204, S218	Tavakubu/Drasa Vitogo	3Km		
Field 40	S218, I355, S206	SakanaiValu Rd, Kashmir	8Km		
	I520, S206, S207, S204	Rifle Rage, Field 40.	5Km.		
Saru Feeder	S366, I417	Tavakubu / Saru	5km.		
	S208, I417, I288	Saru / Vaivai	15Km		
	I319, I288, I289	Vuda Back Rd	5km		
	I289, I291	Wairabetia	4Km		
Saweni Feeder	S239, I368, I317	Saweni / Vuda	8km		
	I368, I205	Vuda Point	6Km		
	S210, I205	Saweni	4km		
Natabua	I357- S207- S208- I388	Whole of Natabua including all HV and LV tee-offs	5km		

Yalalevu Feeder	S225 – S224- S219- S388	Main Line – Yalalevu- Namosau- Xavier, Prison, Mission Hospital & Govt. Qrts Including all small HV and LV Teeoffs	2.5km		
	F5333-EOL	Whole of Clopcott	1.5km		
	F5038-EOL	Whole of Maururu	6km		
	F5512- EOL	Whole of Badrau	0.7km		
	I366 – I305- F5656-EOL	Whole of Tauvegavega, Race Course Road and Korovatu			

FEEDER	HV ISOLATING POINTS	AREAS	TOTAL DISTANCE [km]
NACOCOLEVU - KOROLEVU 33KV TEE-OFFS	4T9906	SOVI BAY	2km
	F5506, F5814 AND F5611	VATUKARASA, BALENABELO AND KOROINASAU	7km
	4F9904 AND F5066	TAMBUA SANDS & NAMADAVILLAGE	1.5km
SIGATOKA TOWN	I436, I347, I287, I279, S394, F5524, F5171, S309, F5541, F5172, F5405, F5406, I342, S310, F5175, F5494, F5637, F5499, F5524, F5460, F5610, F5693, F5694, I492 AND F5695	KOROMUMU, BARA, RAKIRAKILEVU, SIGATOKA AND YAVULO VILLAGES, LAWAQA, TILAVALEVU AND VUNATAVOU VILLAGES, NAVOVO SUBDIVISION, TOWN AREA, LASELASE AND NAYAWA VILLAGES, OLOOLO, OLOSARA, KOROTOGO, MALEVU, SOVI BAY AREAS,	78.5km
	S396, R217, I460, F5166, I461, I511, F5338, F5346, F5341, F5393, F5448, F5375, R228, I284, F5374, F5793, F5833, F5169, F5494, F5499, I285, F5426, F5769, F5596, I286, F5198, F5609, F5771, F5612, F5364, F5483, F5788, F5550, I434, F5602, F5615, I454, F5664, F5665, S412, F5794, F5812, F5795, S413, S418, S423	KEDRAKULU, LAWAI, NAKABUTA VILLAGE, NASAU, KOROKORO, NACOCOLEVU RESEARCH STATION, NAWAMAGI VILLAGE, NARATA VILLAGE, NADRALA VILLAGE, YALAVA, SAMUSAMU, NARORO, RASIKULUKU, BARARA, NADURI VILLAGE, KAVANAGASAU, NADRALA, YALASA, NACEVA, QEREQERE VILLAGE, RAIWAQA VILLAGE, LOKUYA, BILALEVU, MAHEN EXPORT, NASOVATAVA, NABITU, NAREWA VILLAGE, WAICOBASCHOOL, NARATA VILLAGE, RARARUA VILLAGE, NABAKA, SIMINILAYA, TUBAIRATA VILLAGE, RAUNITOGO, NUKUCIRI, VUNAQURO VILLAGE, NAQALIMARE, NAHAU VILLAGE, TOGA VILLAGE, SAUTABU VILLAGE, NAVEYAGO VILLAGE, RARABAHAGA, NALEBALEBA VILLAGE, TUVU SHOPPING CENTER, TOGA VILLAGE, BEMANA VILLAGE, MATOVO WATER TREATMENT STATION, DREKE VILLAGE & KEIYASI GOVERNMENT STATION	
YANUCA	S301, F5152, F5153, F5523, F5376, F5594, F5154, S302, F5155, F5457, F5607, F5157, F5158, F5159, S303, S304, S305, F5162, F5267, F5691 AND F5492,	KOROMUMU, TULALEVU, KULUKULU, VUNAVUTU, NASA, VOLIVOLI, MATAQE, WAIBOGI, YADUA, MALAQEREQERE, NAVUEVU, TORE, SILA, NAQELEDAMU, CUVU, NAVOVO, RUKURUKULEVU, VAUA, NAIDIVI, FSC COMPOUND, NEWTOWN, HANAHANA, ULUISILA, TOGOVERE, NADROMAI, NADOLA, NAREWA, MUKA, NADAULAU, NAIDIRI AND TAGITAGI AREA	93km
NAVITI	F5204, F5657, F5630, F5667, F5206, S417, VCB 3G10	VOTUA HOUSING, VOTUALILAI VILLAGE, NAGASAU, MAUI BAY ESTATE, MUANIVUNISE & TAQAQE TFL & VODAFONE KOROLEVU, NAVITI RESORT, DIGICEL, VOTUALILAI, VALASE RESORT, TAQAQE FORESTRY, HIDE-A-WAY RESORT, VODAFONE & DIGICEL HIDE-A-WAY	25km
HYATT	F5253, F9055, F5574, F5575, F5576, I439, I510, S381	MATANIPUSI HILL, NAVUTA HILL, NAMAQUAQUA, NABUKELEVU, MATEIKADAWA, NABUKELEVU, VUNAYAWA, NABOUTINI, NAVUTULEVU, NAKARA, NAKOROVOU, NAMATAKULA, NAVOLA, VOLIVOLI, BILA & BIAUSEVU, CRUSOE RETREAT RESORT, CORAL VILLAGE RESORT, VODAFONE NAMAQUAQUA, VODAFONE MANGO BAY, MANGO BAY RESORT, DIGICEL NAMATAKULA, BEACH HOUSE, NASIKAWA VISION COLLEGE, WARWICK RESORT AND VODAFONE & DIGICEL WARWICK.	43km
KOROLEVU	F5178, VCB 3B10	KOROLEVU, QALITO, JAFFAU & VOTUA HOUSING, KOROLEVU SBD, KOROLEVU HEALTH CENTRE, KOROLEVU POLICE POST, LAGOON BEACH RESORT AND VILISITE'S RESTAURANT	6km
MARO	F5190, F5181, F5182, F5185, F5531, F5831, F5485, S315, S250, S257, S259	VUSAMA, MARO, MARO BACK RD, KABISI, NAIKELI, NAIKELI VILLAGE, KABISI VILLAGE, VAVANAQIRI VILLAGE, CIRIWAI, BATIRI VILLAGE, BATIRI SETTLEMENT, BATIRI PUBLIC SCHOOL, TOGOBULA VILLAGE, QOQO ISLAND RESORT, VUSAMA VILLAGE, LOMAWAI, LOMAWAI PRIMARY SCHOOL, LOMAWAI SECONDARY SCHOOL, KADAVU SETTLEMENT, FSC SECTOR OFFICE, LOMAWAI, CIRIWAI TOP, NAVUTU VILLAGE, LOMAWAI HEALTH CENTRE, LOMAWAI VILLAGE, WAI DISTRICT SCHOOL, KUBUNA VILLAGE, LOMAWAI DIGICEL SITE, LOMAWAI VODAFONE SITE, NAMATA, NAMATA PRIMARY SCHOOL, NAMATA VODAFONE & DIGICEL SITE, NAMATA CATHOLIC MISSION, KOROKULA VILLAGE, TAU VILLAGE, TAU HEALTH CENTRE, WAIDA SETTLEMENT, SAVUSAVU MOMI, SEASHELL COVE , SARIYAWA, MOMI SETTLEMENT, MATAPO OFFICE MOMI, MOMI REORT CONSTRUCTION SITE, HERBERT CONSTRUCTION SITE, SARIYAWA, NABILA, MOMI GUN SITE, BAVU VILLAGE, PART OF NAWAI SETTLEMENT, SEASHELL COVE RESORT, QOQO ISLAND, SHARMAS SHOPPING CENTRE, VATUDRADRA POLICE POST, FOODHALL SUPERMARKET KABISI, RANAS SHOPPING CENTRE, RANAS TYRE CENTRE, RANAS BOWSER	168km
SANASANA	I541, F5669, I481, F5678, F5815, F5803, F5662	VODAFONE, DIGICEL AND RESERVOIR SITE NATADOLA, NATADOLA WASTE WATER TREATMENT PLANT, SANASANA VILLAGE, NATADOLA WATER PUMPING STATION, NATADOLA GOLF CLUB HOUSE, MALOMALO SETTLEMENT, MALMALO PRIMARY SCHOOL, NAIDIRI SETTLEMENT, MALOMALO VILLAGE, NAIDIRI VILLAGE	18km
NATADOLA	I540, I466, F5189, I474, I422, F5188, F5239,	SEMO, NABOU, KABISI, EMURI, MARO, NALELE, CIRI, NAVISABASABA & NATADOLA AREAS	42km
QELELOA - MARO 33KV CCT FDR T/OFF AT NABOU	F5327, F5197	NABOU PINE STATION & KAVUKAVU REPEATER STATION	6km
MARO - SIGATOKA 33KV CCT FDR T/OFF AT WAIBOGI SETTLEMENT	4T9902	WAIBOGI SETTLEMENT	7km

By providing the above information, FEA does not take liability of the actual conditions in field. The bidders / contractors shall verify the actual conditions and the geographic terrain during the site visits. The bidders shall self-evaluate the realities in the field and submit firm prices. Variation will not be allowed as part of this contract.

Bidders are to submit a breakdown of prices and expected date of completion of each location specified as per the tables included above in this tender document.

1. 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. HSE41C01, HSE41C02, HSE41C03, HSE41C04, HSE41C05, HSE41C11, 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 Course**

2. 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 3rd August, Thursday 4th August and Friday 5th August, 2016. Interested Bidders are to report to Technical Officer TST in FEA's Navutu Depot, Lautoka. Cell Phone: 9992421.

3. Lodgment 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 Documents must be paid by the bidders.

This tender closes at 4:00pm, on Wednesday, 17th August, 2016.

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

Tender-MR 73/2016 – Vegetation Management for Distribution Lines in the West

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 not be accepted.

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

4. SCOPE OF WORKS – Vegetation Management

4.1. **Pole base clearing** for wooden poles only and all creepers, grass from each pole and ground/fly stay wire base **3m radius around each pole.**

4.2 **Vegetation clearing** shall be carried out within 30m of Fiji Electricity Authority (FEA) power lines, and any other trees specifically identified during the site visit.

4.3 Clear ALL vegetation **growth by the root/ground.**

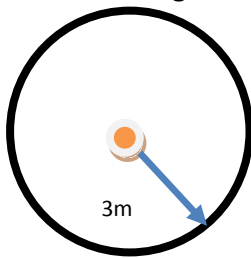
4.4 Clearing of vegetation debris and transportation of debris to contractor's disposal site

4.5 All works shall be supervised and inspected by FEA.

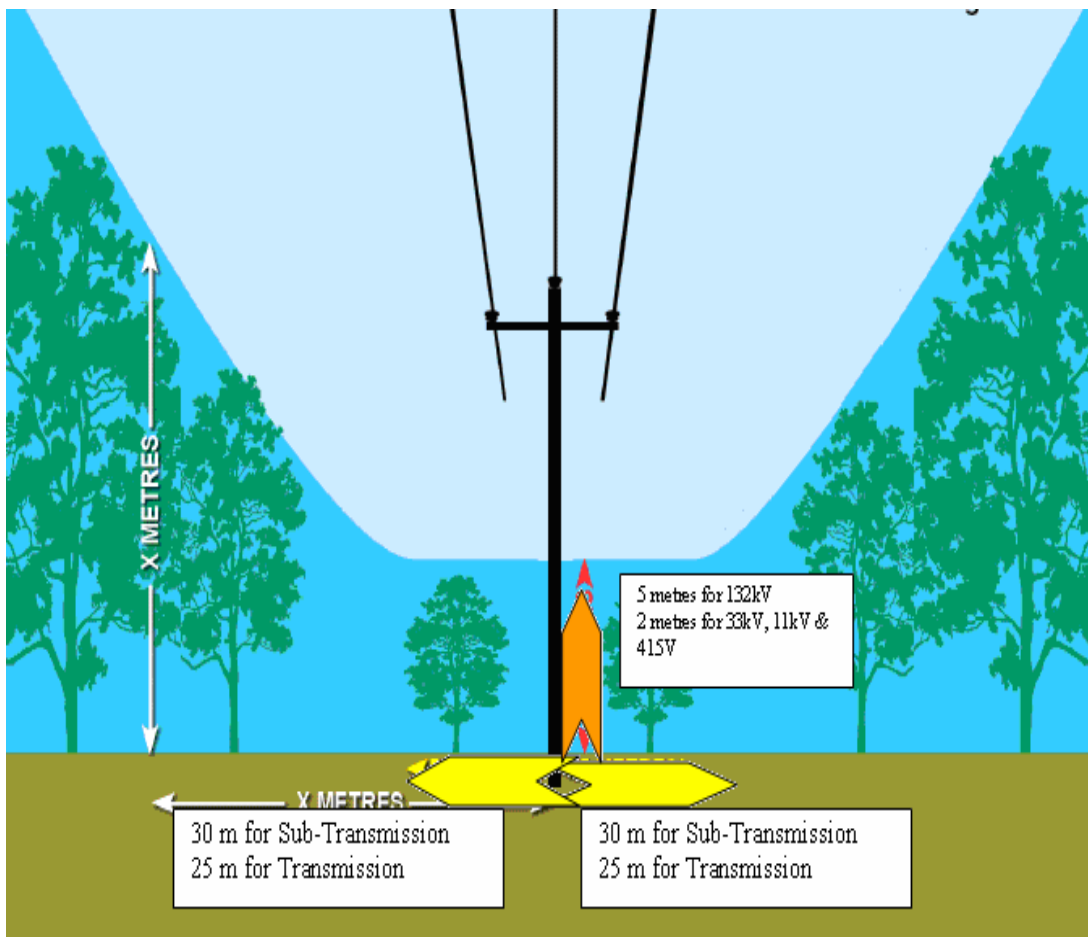
4.6 Report on any landslide area for slope stability.

4.7 Guidelines for execution of works – FEA Vegetation Management Policy

Pole Base Clearing



Vegetation Clearing



5. Commencement and Completion of Work

- a) Latest date for commencement of the works: 7 days from issue of LPO.
- b) Date for final completion of the works: **30** days from issue of LPO.

6. For the purpose of supervising the contract on behalf of the Authority, references in the General Conditions to the Authority shall include the Unit Leader Distribution West or his designated officer. The Project Manager shall be the Unit Leader Distribution West and the Project Engineer shall be the Distribution Engineer West. The Project Supervisor shall be assigned prior to the Induction.

7. Insurance

- (a) Contractor's risk \$500,000.
- (b) Public Liability \$500,000.
- (c) Worker's Compensation \$250,000

The contractor shall indemnify FEA against any claims for liability, injuries, losses, damages etc that may arise during the execution of the works.

8. Liquidated and ascertained damages

Agreed liquidated damages (LDs) shall be payable by the Contractor for failure to achieve the required **Time of Completion as per clause 2** or by any extended time allowed by the FEA. The Agreed liquidated damages will be \$200.00 per day of delay.

Any extension of time will be agreed upon by The Project Manager and the Contractor. Such extension of time will be reduced in writing and communicated to the Contractor by FEA.

9. Defects Liability period

Defect liability period shall be 6 months from the completion of the work.

10. Retention Fund

- (a) Limit of retention fund: Nil
- (b) Nature of retention fund: N/A
- (c) Release of retention fund: N/A

11. CONTRACTOR REQUIREMENTS

- a) **Tender Bid** – Contractor shall submit a firm bid clearly indicating a lump sum VIP price.
- b) **Site Visit** – Contractor shall participate in a site visit which is compulsory. Bids from tenderers who do not participate in the site visit shall be disqualified.
- c) **Standards** – All vegetation management work shall be in compliance with FEA Vegetation Management Policy.
- d) **Vegetation clearing** –. Vegetation, which at a mature height will exceed 2m in height and will be

within falling distance from the FEA lines are to be removed. **Vegetation debris shall be disposed off neatly at a location agreed to by FEA. No debris shall be left by the roadside, or blocking drains.**

- e) **Safety Plan** – The tender bid shall include a Safety Plan that will be evaluated by the FEA’s HSE Unit. Tender bids with incomplete, unacceptable, or without a Safety Plan will not be considered for award.
- f) **Safety Record** – Tender bid shall include a brief report on Safety performance over the last two years. The report shall include all incidents and accidents.
- g) **Sub-contracting** – Subcontracting shall not be permitted, except where this is specifically presented in the tender bid, and only upon approval by FEA. Subcontractors shall be required to fulfil all requirements as if they were the contractor.
- h) **Scope of works** - Work involved in this contract is broadly classified into two phases, and progress payments shall be processed accordingly.
 - i) Pole Base and Vegetation Clearing
 - ii) Disposal of vegetation debris
- i) **Contact** - Contractor shall have a valid postal address, Office phone/fax/e-mail contact. The Principal shall be available by mobile phone at any time.
- j) **Work Program** - Contractor shall submit a work programme before starting of project. This shall be part of the contract. Work shall commence within seven (7) days after receiving an official FEA Local Purchase Order.
- k) **Training** – Contractor shall ensure his employees have attended training on the following within the past 6 months :
 - FEA Safety Manual Training
 - FEA Vegetation Management Policy,and records of this shall be submitted with the tender bid. In the event that the training has not been carried out, the Contractor shall ensure these training are carried **PRIOR** to induction for new project.
- l) **Chainsaw Operator** – Contractor shall ensure that the project has one Certified Chainsaw Operator certified by the Department of Forests. Records of these personnel shall be submitted with the tender bid.
- m) **Invoicing** – Contractor shall submit details of work completed to allow prompt approval of invoice.
- n) **Safety Induction** - A Safety induction must be conducted before start of vegetation management work. **Contractor shall ensure that all employees who work on the project attend the Safety Induction. All contractor employees are to present a valid company ID card clearly showing a current photo, employee name, employee date of birth and employee job description.**
- o) **Instruction to Commence Work** - Contractor shall NOT commence work on site unless an “Instruction to Commence Work” has been received from the Project Manager.

- p) **Signboards** - One signboard (6'X 4') must be erected at the start of the works and one at the end of the works clearly stating :

<p style="text-align: center;">DANGER</p> <p>PROJECT: VEGETATION MANAGEMENT– Vunidawa Feeder</p> <p>CONTRACTOR:</p> <p>VEGETATION MANAGEMENT WORK</p>

- q) **Accident Reporting** – All accidents and incidents shall be reported immediately to FEA using approved forms available in the FEA Safety Plan Template, or equivalent.
- r) **Project Updates** - Contractor shall meet with FEA Project Manager, Project Engineer and Project Supervisor on a weekly basis to discuss project progress and bottlenecks. These meetings shall be minuted for records, and circulated to the appropriate stakeholders.
- s) **Tidiness** – The Contractor shall maintain the worksite in a neat and tidy condition.
- t) **Consent for Vegetation clearing** – no vegetation shall be cleared unless specific instruction to do so has been received from the Project Supervisor. Notwithstanding this, the contractor shall inform the tree owner that he is required to clear the tree, and shall obtain the owner’s confirmation that he has five FEA his consent to remove the tree, prior to proceeding with cutting the tree.
- u) **Fires** – No fires are to be lit at jobsites for the purpose of clearing vegetation or vegetation debris.
- v) **Village Protocols** – the contractor shall comply with protocols involved in working on land owned by Indigenous Fijians to ensure smooth work progress.
- w) **Damage to property** – The Contractor shall ensure that there is no damage to roadways, footpaths, drains, water-courses, properties and other services. The Contractor shall make good to the satisfaction to the owner any damage caused by the contractor.
- x) **Portable signboards** - Portable signboards must be placed at 50m intervals.
- y) **Traffic and Pedestrian Control** – The Contractor shall ensure that there is minimum disruption to the flow of traffic and pedestrian. FEA procedures on Traffic Control and Pedestrian Control shall be diligently exercised.
- z) **Worksite protection** - Bollards/cone must be placed at 10m intervals.
- aa) **Jobsite Safety Assessment** - Contractor to carry out Jobsite Safety Assessment daily, and as and when required, and submit these to FEA on a weekly basis.
- bb) **Contractor HSE Compliance** - Contractor shall comply with FEA/Contractor HSE Manual at all times.

cc) **Defects Rectification** – The contractor shall rectify all defects within seven (7) days as per contract.

dd) **Project completion** – The contractor shall complete work on time as per contract.

ee) **Project progress** – If the Contractor fails to proceed with the works with reasonable diligence or suspends the works or refuses to comply with the reasonable direction from FEA by reason of which the works are materially affected and any such default continues for a period of seven (7) days after the issue of written notice, FEA may itself call any other person to complete the works at the Contractor’s risk and expense.

ff) **FEA/Contractor HSE Manual** - Contractor shall comply with FEA/Contractor HSE Manual at all times.

12. FEA Requirements

- a) FEA’s HSE Unit shall vet Safety Plan submitted by Contractor and approve after queries clarified by Contractor.
- b) FEA Project Supervisor and Project Engineer shall carry out regular site inspections to ensure compliance with HSE requirements, and submit Safety Visit Reports of the visit.
- c) FEA Project Supervisor and Project Engineer shall issue Non-Conformance Report if required, and follow up for verification of implementation of Action Items arising out of the Non-Conformance Report.

13. PAYMENT SCHEDULE

Payment shall be made as per payment schedule:

Phase	Description	Percentage payment
1	After completion of 50% of pole base and vegetation clearing	40%
2	After completion of remaining 50% of pole base and vegetation clearing	40%
3	Cleared/ Disposal of vegetation debris as specified in the tender	20%

Progress payments may be made, but shall not exceed the value of work completed.

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.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

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 bid.