

# FIJI ELECTRICITY AUTHORITY TENDER DOCUMENT

TENDER NUMBER: MR 318/2017 TENDER NAME: Installation of Conduits on road crossings for 33kV Underground Cabling Works

## FIJI ELECTRICITY AUTHORITY

### TENDER No. MR 318/2017

# Installation of Conduits on road crossings for 33kV Underground Cabling Works

The Fiji Electricity Authority invites sealed bids from reputable companies for Underground Conduit Installation Works on road crossings. This project is a perquisite to underground cable installation project from Cunningham Substation to Hibiscus Park Substation. The conduit installation locations are as follows:

<b>Road Crossing</b> Lakeba Street	Length (m)- approximate 20
Bureta Street	19
Kaba Street	12.5
Loa Street	22
Mead Road	16.7
Ragg Avenue Road	17
Ro Kuboulevu Road	17
Across Princess Road (after Australian Embassy main gate)	30

Interested Bidders are to meet at the FEA's Kinoya Depot at **10.00am** on **Monday the 20<sup>th</sup> of November, 2017** for the project briefing and site visit. SITE VISIT IS COMPULSORY ATTENDANCE WILL BE TAKEN.

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

This tender closes at 4.00pm (16.00hrs Fiji Time) on Wednesday, 22<sup>nd</sup> of November, 2017.

It is mandatory for bidders to submit <u>three (3) hard copies</u> of tenders in sealed envelopes and clearly marked as -

• Bid for Tender MR 318/2017 - Installation of Conduits on road crossings for 33kV Underground Cabling Works

DO NOT OPEN BEFORE TENDER CLOSING DATE AND TIME.

Bids must be addressed to: The Secretary - Tender Committee, Fiji Electricity Authority, Private Mail Bag, Suva;

And be deposited in the **Tender Box** located at the **Fiji Electricity Authority Head Office**, **2 Marlow Street**, **Suva**; by no later than the above stipulated date and time.

All late tenders, unmarked envelopes and envelopes without bidder's name and addresses on the reverse will be returned to the Tenderers.

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

1. Scope of Work	The Fiji Electricity Authority (hereinafter referred to as "the Employer"), wishes to receive bids for <i>Installation of Conduits on road crossings for 33kV Underground Cabling Works</i> , as specified in these bidding documents.
2. Eligible Bidders	This Invitation to Bid is open to bidders who have sound technical and financial background and have relevant previous experience. Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer as the Employer may reasonably request. Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent practices.
3. Compulsory Site Visit	<ul> <li>10.00am on Monday the 20th of November, 2017. Interested Bidders are to report to the FEA Kinoya Depot for tender discussion, followed by Compulsory Site Visit.</li> <li>Bidders are to arrange their own 4x4 vehicles for transportation to site.</li> </ul>
4. Qualification of the Bidder	To be qualified for award of Contract, bidders shall submit proposals regarding construction methods, scheduling and resourcing which shall be provided in sufficient detail to confirm the bidder's capability to fulfil the contract.
5. Cost of bidding	The bidder shall bear all costs associated with the preparation and submission of its bid and the Employer will in no case be responsible

	ar liable for these costs		
	or liable for those costs.		
6. Modification and Withdrawal of Bids	The bidder may modify or withdraw its bid after bid submission, provided that written notice of the modification or withdrawal is received by the Employer prior to the deadline for submission of bids.		
	The bidder's modification or withdrawal notice shall be prepared, sealed, marked and delivered, with the outer and inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL", as appropriate. A withdrawal notice may also be sent by fax but must be followed by a signed confirmation copy.		
	No bid may be modified by the bidder after the deadline for submission of bids.		
7. Employer's	The Employer reserves the right to accept or reject any bid, and to		
Right to	annul the bidding process and reject all bids, at any time prior to		
Accept any	award of Contract, without thereby incurring any liability to the		
Bid and to	affected bidder or bidders or any obligation to inform the affected		
Reject any or all Bids	bidder or bidders of the grounds for the Employer's action.		
8. Notification of Award	Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder by fax/email, confirmed by registered letter, that its bid has been accepted. This letter (hereinafter and in the Conditions of Contract called the "Letter of Award") shall name the sum which the Employer will pay the Bidder in consideration of the execution, completion and maintenance of the Works by the Bidder as prescribed by the Contract (hereinafter and in the Conditions of Contract called "the Contract Price"). The notification of award will constitute the formation of the Contract.		
	The Employer will promptly notify the other bidders that their bids have been unsuccessful.		
9. Corrupt or Fraudulent Practices	The Employer requires that the Bidder observe the highest standard of ethics during the procurement and execution of such contracts. In Pursuance of this policy, the Employer:		
	(a) defines, for the purposes of this provision, the terms set forth below as follows:		
	"corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving or soliciting of anything of value to influence		

	the action of any such official in the procurement process or in contract execution; and			
	"fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition;			
	Will reject a proposal for tender award if it is determined that the bidder has engaged in corrupt or fraudulent practices in competing for the contract in question.			
10. Project	Bidders are to refer to attached project drawings for bidding and			
Drawings	construction.			
11. Guidelines for Execution of Works	All trench excavation works shall be mandatorily carried out manually by hand tools only and not utilizing excavators or any other form of mechanized excavation, as per tender specifications, with the exceptions of the tools noted below specific to the purposes noted below:			
	1). Powered Saw Cutting Machine shall be permitted, which is only to be utilized for saw cutting of concrete footpaths and paved roads, such the a clean precise cut / break is obtained while trenching across concrete footpaths and paved roads.			
	2). Powered Jack-Hammer may also be permitted by FEA at its sole discretion, on a case by case basis, upon the contractor's written request for the purpose of:			
	a). breaking through solid concrete or bedrock for the initial depth of 200mm or 8 inches from the existing surface being trenched			
	b). breaking through and excavating bedrock where it is known or anticipated that no other utility services such as water mains, sewer mains, telecommunication cables, and power cables exist within 1000mm or 40 inches in the horizontal vicinity of the trench location.			
	3). Vibrational Plate Compactors and Tamping Rammers (Wacker- Packer) shall be permitted by FEA for the purpose of:			
	a). smoothing of trench bottom, after the trench has been excavated to its full depth and prior to sand bedding, provided no other utility services exist within the excavated trench which could be damaged through the use of the Vibrational Plate Compactor(s).			
	b). compaction of backfilled material in maximum 300mm layers such that proper cohesion and solidity of backfilled material is achieved whereby future sinkage or settlement of backfilled material can be			

avoided.
No other mechanized excavation tools or machines shall be permitted. Bidders are to price for 100% manual excavation.
In the interest of expediting the execution of the project, the FEA reserves the right to suggest, approve or deny the areas where mechanized works may allowed or required and also what mechanized tools are to be permitted, upon the contractor's written request.
All works shall be carried out in a practical and professional manner, without compromise to safety of people and property or assets.
Proper planning and communication shall be conducted by the contractor with the FEA and all other relevant external stakeholders.
The following guidelines shall be utilized and adhered to, for the smooth execution of works:
1. The contractor shall be responsible for implementing a traffic management Plan (TMP) wherever pedestrian or vehicular traffic is encountered along the trench route.
<ul> <li>2. The FEA's Project Manager or designated representative(s) shall liaise with the relevant stakeholders to carry out a joint site visits along the finalized marked route, together with the contractor, prior to the commencement of works. The following stakeholders shall be typically present, as and where applicable: <ul> <li>a. Telecom Fiji Limited (TFL)</li> <li>b. Water Authority of Fiji (WAF)</li> <li>c. Suva City Council (SCC)</li> <li>d. Fiji Roads Authority (FRA)</li> </ul> </li> </ul>
3. Once the location of existing utility services has been field inspected and verified by the relevant stakeholders, the FEA shall record the finalized/marked route using Global Positioning System (GPS) and reflect this on the finalized construction drawings, and provide the contractor and relevant stakeholders with a revised issue for construction drawings indicating any changes done to the original plans.
4. The drawings shall not indemnify the contractor from any damages to the utility services. All damages caused by the contractor to existing utility services shall be rectified professionally as deemed necessary. The payment for the final cost for the damages, associated rectification costs and any loss in revenue shall be made by the FEA to the aforementioned stakeholders, and this shall be recovered in entirety from the

	contractor. The contractor is solely responsible for all damages pertaining to the execution of the works
	encompassed by the scope of this contract.
5.	To execute works safely and with due care and without damage to existing utility services, it is mandatory that the contractor shall manually excavate a perpendicular pilot trench 1500mm x 500mm x 1200mm deep at both ends of the road crossing and field verify the exact site conditions, and the presence of any existing utility services.
6.	Once the pilot trenching has been carried out, as per the aforementioned item 5, the contractor shall notify the FEA to facilitate a joint site visit, with the contractor and <u>any relevant</u> <u>stakeholders</u> . After the FEA and relevant stakeholders have given the go-ahead the contractor shall excavate the final trench for cable laying at the earliest.
7.	The contractor is to ensure that water ingress and flooding does not happen in the trenches and adequate temporary drainage is facilitated.
8.	The contractor shall take measures to ensure public safety, by means of adequately covering the excavated area, and putting adequate warning/danger signage.
9.	Once the 1200mm deep final trenching is complete, and the trench bottom has been levelled and compacted, the contractor shall notify the FEA for trench inspection, prior to the commencement of the mandatory 200mm deep sand bedding. The FEA shall provide the contractor the necessary written signoff to commence the sand bedding works. This inspection and signoff by the FEA's Project Manager or delegated representative is <u>mandatory</u> . The contractor shall not proceed forward without this mandatory inspection and signoff.
10.	Once the 200mm deep sand bedding inside the trench has been completed, the contractor shall duly notify the FEA to inspect this sand bedding. This inspection and signoff by the FEA's Project Manager or delegated representative is <u>mandatory</u> . The contractor shall not proceed forward without this mandatory inspection and signoff.
11.	All sand deliveries shall be made in the presence of the FEA Project Manager's designated field representative, and only he/she shall sign the delivery dockets for the supply of sand. <u>The contractor shall not sign on the delivery dockets for the</u> <u>supply of sand on behalf of FEA.</u>

12. Wherever practicable, the sand and crushed-metal (AP40 -
AP65) delivery trucks shall offload or deliver the bulk material to the site where consumption is required. The supply contractor would be hauling material in bulk quantities i.e. 10m <sup>3</sup> to 20m <sup>3</sup> truck loads. It is anticipated that, at some trench route locations it would not be possible to offload the bulk quantity of material due to space constraints or due to any other reason. In such cases the FEA shall receive and stockpile the material at FEA's Kinoya Depot and the conduit installation contractor shall be required to load and transport the material from Kinoya Depot to the site, <u>at their sole cost</u> . For convenience and efficiency, the contractor may arrange a closer stockpiling site at his sole cost and responsibility. FEA would require the contractor to facilitate a written consent from the owner of the property or the authority having jurisdiction over this temporary stockpiling area, prior to facilitating bulk delivery of material to this temporary stockpiling site facilitated by the contractor. The handover of material from FEA to the contractor shall be deemed to have happened upon delivery.
13. The contractor shall be solely accountable for the security and safekeeping of all materials, tools and equipment which has been handed over by FEA to the contractor. Handover shall be deemed to have happened once items have been requested by the contractor and have been availed at the Kinoya Depot or once items have been delivered to the site upon the contractor's request. The contractor is solely responsible for the handling, proper storage, security, degradation, and damage to the items which have been deemed to have been handed over. The contractor may source and/or repair and/or replace any items to the full satisfaction of FEA. The FEA, at its sole discretion, reserves the right to approve or disapprove any items which have been sourced/repaired/replaced by the contractor. The FEA will replace items if required at the sole cost of the contractor.
14. Installation of ducts shall be carried out under mandatory FEA supervision and inspection. The FEA shall approve these works, prior to the commencement of any backfilling. The FEA shall also record the duct locations by GPS.
15. The backfilling and restoration of roads and driveways shall be completed at the earliest. The backfilling, compaction and restoration of roads shall be executed as per FRA mandated specifications. The backfilling and compaction of road crossings shall be inspected and approved by the FRA. All defective works shall be re-excavated and rectified by the contractor in a timely manner at the contractor's sole expense.
16. Final road resurfacing shall be carried out by FRA approved contractors and the FEA shall engage the FRA and its approved contractors for the same. The payment for road resurfacing

	shall be made by the FEA and all costs associated with road resurfacing shall be borne by the FEA.				
	17. The Contractor shall provide the FEA at least 48 hours prior notice in writing to facilitate any of the site visits together with the relevant external stakeholders.				
	18. All excavated soil and rock material which is in excess after the reinstatement of trenches shall be transported to the FEA Kinoya Depot for landfilling purposes, at the sole cost of the contractor.				
12. Variation or Additional Works	Any variation or additional works foreseen by the contractor shall be immediately brought to the notice of the FEA's designated Project Manager [Unit Leader Transmission], in writing. The FEA shall issue a separate Local Purchase Order (LPO), for the relevant variation or additional works if justified. The contractor shall only proceed forward with the relevant works only after having received the LPO and/or written/emailed consent from the FEA Project Manager on which the General Manager Network has been duly copied on the correspondence. NO PAST DATED VARIATIONS OR ADDITIONAL WORKS CLAIMS SHALL BE ENTERTAINED AND DEEMED PAYABLE BY THE FEA. The contractor shall allow the FEA adequate prior notice of 3 working days to facilitate the LPO, with prior planning such that zero disruptions in works eventuate due to the claim for any variation or additional works.				
13. Progressive Payments	Payments shall be done progressively upon work completion on individual road crossings.				
14. Project Timeline	The Works shall be tentatively commenced on or before the 4th of December, 2017 and the entire conduit installation and backfilling shall be completed within 21 calendar days of commencement. Project shall be deemed commenced from the next day from the date of issuance of the LPO.				
	Road CrossingLength (m)- approximatelyDuration				
	Lakeba Street	20	3 Days		
	Bureta Street	19	3 Days		
	Kaba Street	12.5	2 Days		
	Loa Street	22	3 Days		
	Mead Road	16.7	2 Days		
	Ragg Avenue Road	17	2 Days		
	Ro Kuboulevu Road	17	2 Days		
	Across Princess Road	30	4 Days		
	(after Australian				
	Embassy main gate)				

15. Liquidated Damages	<ul> <li>basis, at least 5 days in a week and all necessary facilitation required from the FEA's end shall be furnished for the weekend days, and provided the contractor has provided adequate prior notice.</li> <li>Failure to meet the aforementioned deadlines stipulated in the above table shall consequent in the contractor incurring LIQUIDATED DAMAGES of 1% per stage per working day and up to the total of 15% of the respective price for each Stage.</li> <li>Liquidated Damages shall be applied ONLY to the respective project stage(s) which encounter(s) delays. When executing the liquidated damages, the FEA shall take into account force majeure, and/or any genuine delays directly caused by the FEA and/or any extreme/inclement weather days which may deteriorate site conditions and cause delays to works, and shall offer the contractor a grace period equal in number to the <u>sum of</u> force majeure, and/or any genuine delays directly caused by the FEA and/or any is period equal in number to the sum of force majeure, and/or any genuine delays directly caused by the FEA and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or any genuine delays directly caused by the fea and/or extreme/inclement weather days, provided the contractor has notified the FEA Project Manager in writing or by email, of the disruption to works due to such eventualities deemed beyond the control of the contractor, and within 48 hours of such disruptions happening.</li> </ul>					
16.Insurance						
Policies	Policy type	Value	Date of Issue	Expiry Date	Insurance Company	Policy Number
	Workers Compensation	\$250,000.00	issue			
	Public Liability	\$500,000.00				
	Contractors All Risk	\$500,000.00				
17. Necessary Competent Personnel	The contractor shall be required to maintain competent and qualified personnel for the supervision and execution of works. A competent cable jointer shall be required at all times during the execution of the project, and especially during the trenching and conduit installation. Bidders are to provide details of competent cable jointers to be engaged in these works. Bidders are required to submit the necessary ID Cards and Licenses / Certifications for the same at the time of bidding.					
18.Prices & Validity	Bidders are to submit prices in Fijian Dollars (FJ\$). Prices noted in bids shall be Value Added Tax (VAT) Inclusive Prices (VIP)			oted in bids		
19. Tools and Equipment supplied by	The Tools and Equipment supplied by FEA is limited to Steel Checker Plates for covering pedestrian footpaths in busy areas where no alternative pedestrian walkway can be created to implement a safe					

FEA	traffic management plan		
	Notes: All other tools and equipment envisaged in the project shall be supplied by the bidder. All equipment supplied by FEA shall be picked up and loaded by the contractor from the FEA depot where the equipment is located. Any FEA tool or equipment supplied by FEA which is damaged or lost by the contractor shall be replaced with equivalent items. If the contractor is unable to replace the lost or damaged tools or equipment within a reasonable amount of time then the FEA shall invoice the contractor for the full amount of item's historic purchase cost or the item replacement cost (whichever is greater), plus any other costs associated with replacing the equipment.		
20. Equipment supplied by Contractors	The Tools and Equipment supplied by the contractor is envisaged as follows but not limited to the list below: Trucks for the cartage of Conduits from FEA Kinoya Stores to installation sites Trucks for the cartage of trench's excavated material for temporary stockpiling for future usage in trench reinstatement Trucks for the cartage of trench's surplus excavated material to the Kinoya Depot for landfilling purposes. Tools, equipment and PPE items for contractor's employees Trench Barricading items Traffic Management items Etc. Note: Bidders to self-verify the exact requirements for project execution		
21. Necessary Competent Personnel	The contractor shall be required to maintain competent and qualified personnel for the supervision and execution of works. A competent cable jointer shall be required at all times during the execution of the project, and especially during the trenching and cable handling. Bidders are to provide details of competent cable jointers to be engaged in these works. Bidders are required to submit the necessary ID Cards and Licenses / Certifications for the same at the time of bidding.		
22. Prices & Validity	Bidders are to submit prices in Fijian Dollars (FJ\$). Prices noted in bids shall be Value Added Tax (VAT) Inclusive Prices (VIP)		
23. Drawings	Bidders are to refer to the attached drawings for bidding purposes. Bidders are required to bring a copy of the attached drawings for site visit.		
24. Materials Supplied by the Contractor	<ul> <li>The Materials to be supplied by the contractor which shall be permanently installed are limited to the following: <ol> <li>PVC Glue for suitable bonding of HDPVC conduits.</li> <li>20 MPa Batch Plant mixed Concrete for footpath reinstatement</li> <li>D665 Steel Mesh for footpath reinstatement</li> </ol> </li> <li>Plastic Bar Chairs (places at 500mm centers) for securing 665 or 665A</li> </ul>		

	mesh during concrete casting for footpath reinstatement				
25. Materials Supplied by the FEA	All materials which are to be permanently installed in the project shall be supplied by the FEA, except those materials noted above in <i>Clause</i> 24: Materials Supplied by the Contractor.				
	<ul> <li>Notes: <ol> <li>All materials supplied by the FEA shall only be used for their intended purpose in the project.</li> </ol> </li> <li>All other consumable materials required by the contractor for the execution of the works shall be supplied by the contractor.</li> </ul>				
26.Pricing					
Schedule	Road Crossing     Length (m)-     Prices (FJD VIP)       approximately				
	Lakeba Street	20			
	Bureta Street	19			
	Kaba Street	12.5			
	Loa Street	22			
	Mead Road	16.7			
	Ragg Avenue Road	17			
	Ro Kuboulevu Road	17			
	Across Princess Road	30			
	(after Australian Embassy				
		main gate)			
	Total				

#### APPENDIX

#### LAYING ARRANGEMENT FOR150MM DIA AND 50MM DIA CONDUIT

A total of eleven (11) 150mm Dia HD PVC Conduits in parallel and two (2) 50mm Dia HDPVC pipes in parallel shall be installed at each location's specified above. The trench width required will be approximately one (1) meter with a depth of 1.2 meters.

The conduits shall be laid in the following orientation.

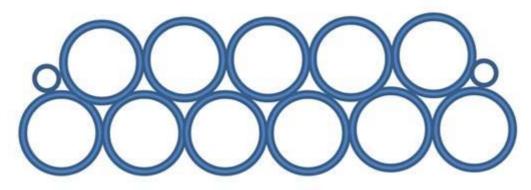


Figure 1 - shows the laying orientation for the pipes.

# Submission of Tender

**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 4:00 p.m. (16.00hrs Fiji time) on Wednesday 22<sup>nd</sup> November, 2017

Each tender shall be sealed in an envelope with:

The envelope bearing only the following marking:

#### <u>MR 318/2017</u> Installation of Conduits on Roads Crossing for 33kV Underground Cabling Works

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 on the envelope will be returned to the Tenderers unopened. (Bids via e-mail or fax will not be considered).

The bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act and must have the most current Tax Compliance Certificate.

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

Bidders are requested to submit a:

- Valid Tax Compliance Certificate
- FNPF Compliance Certificate