



ENERGY FIJI LIMITED

TENDER DOCUMENT

MR 429/2023

**SCHEME: SR29/23, SR29/23B & SR29/23C
RELOCATION OF EFL EXISTING HV & LV
DISTRIBUTION LINES ALONG 132KV VIRARA
– KORONUBU STAGES 1, 2 & 3**

SCHEDULE OF WORKS FOR STAGES 1, 2 AND 3

1. STAGE 1 – Section A, B, C, D and E

The works shall comprise of carrying out Horizontal Directional Drilling (HDD), Trenching, Backfilling, Reinstatement of Roads, berms, drains and Traffic Management Works in reference installation of high voltage and low voltage power cables as per attached **Drawing No: A3 04 N52 152**

Koronubu Road, Ba		Route Length (Approx in meters)	Total Price (VIP)
Section A			
Part 1	Drill from Pole W27786 across Koronubu Road and Drain - HDD (1 * 150mm ² Conduit)	23	
Part 2	Dig Trench from HDD near Pole W27786 across Koronubu Road and Drain till W28029	65	
Part 3	Lay LV Cable between W28029 & W27786 through HDD conduit & seal both ends of conduit with foam and Backfill Cable Trench Cable: (2 x 1C 240mm ² AL)		
Section B			
Part 1	Drill between Pole W27793 & W28077 across the Koronubu road and drain at Veisaru Junction – HDD (2 * 150mm ² Conduits)	25	
Part 2	Dig 1 x 15m Trench on each end of HDD located between pole W27793 to Pole W28077	30	
Part 3	Lay HV (1 x 3C 95mm ² AL) between W27793 & W28077 through HDD conduit & seal Lay LV (2 x 1C 240mm ² AL) Cable between W27793 & W28077 through HDD conduit & seal both ends of conduit with foam and Backfill Cable Trench.		
Section C			
Part 1	Drill from Pole W27798 across Koronubu Road and Drain - HDD (1 * 150mm ² Conduit)	22	
Part 2	Dig Trench located between pole 4 to Pole W27800	200	
Part 3	Lay HV (1 x 3C 240mm ² AL 11kV XLPE) Cable between Pole 4 to Pole W27800. Lay LV (2 x 1C 240mm ² AL) Cable between Pole 4 to Pole W2798 and Backfill Cable Trench.		
Section D			
Part 1	Drill from Pole W27800 across Koronubu Road and Drain to PB1 - HDD (1 * 150mm ² Conduit)	23	
Part 2	Dig Trench located between PB1 to PB3	35	
Part 3	Lay LV (2 x 1C 240mm ² AL) Cable from pole W27800 to PB2 via PB1 through HDD conduit located near pole W27800 & seal both ends of conduit with foam		

	and Roads & shoulder /Driveway/ berms + drains, reinstatement.		
Section E			
Part 1	Drill from Pole W27804 across Koronubu Road and Drain - HDD (1 * 150mm ² Conduit)	23	
Part 2	Dig Trench located between Pole 5 to HDD	38	
Part 3	Lay LV (2 x 1C 240mm ² AL) Cable from W27804 to Pole 5 through HDD conduit located near pole W27804 & seal both ends of conduit with foam.		

2. **STAGE 2 – Section A, B and C**

The works shall comprise of carrying out Horizontal Directional Drilling (HDD), Trenching, Backfilling, Reinstatement of Roads, berms, drains and Traffic Management Works in reference installation of high voltage and low voltage power cables as per attached **Drawing No: A3 04 N52 153**

Koronubu Road, Ba		Route Length (Approx.)	Total Price (VIP)
Section A			
Part 1	Drill from Pole W27809 to PB1 across Koronubu Road and Drain - HDD (2 * 150mm ² Conduit)	23	
Part 2	Drill between Pole W27818 across the Koronubu Road towards Tevoro Lane Junction– HDD (2* 150mm ² Conduit)	27	
Part 3	Dig Trench from HDD near Pole W27809 till Korovuto Junction till Pole W27818	712	
Part 4	Install LV Cable from Pole W27809 to PB1. Cable: (2 x 1C 240mm ² AL)		
Part 5	Lay HV cable from Pole W27809 to RMU at Korovuto Junction Cable: (1 x 3C 95mm ² AL 11kV XLPE)		
Part 6	Install LV Cable from PB2 through PB3 to PB4. Cable: (2 x 1C 240mm ² AL XLPE LV)		
Part 7	Dig HV Trench located Pole 1 to RMU at Korovuto Junction	25	
Part 8	Lay HV 1 x 3C 95mm ² AL XLPE Cable from RMU to Pole 1.		
Part 9	Lay LV 2 x 1C 240mm ² AL XLPE Cable between PB4 to Pole 1.		
Section B			
Part 1	Drill between Pole W27818 across the Koronubu Road towards Tevoro Lane Junction– HDD (1* 150mm ² Conduit)	27	
Part 2	Drill between PB6 to PB5 across Koronubu Road and Drain - HDD	16	

	(1 * 150mm ² Conduit)		
Part 3	Drill from PB8 across Koronubu Road to PB9 - HDD (1 * 150mm ² Conduit)	22	
Part 4	Drill from Pole W27824 across Koronubu Road and Drain towards W29056 - HDD (1 * 150mm ² Conduit)	22	
Part 5	Dig Trench from HDD near Pole W27818 across Koronubu Road via Korovuto Junction and Drain till Pole W27824	568	
Part 6	Dig 1 x 20mtr HV Trench on end of HDD located at Tevoro Lane Junction up till Pole W29058	20	
Part 7	Lay HV (1 x 3C 95mm ² AL) from RMU to W29058 through HDD conduit & seal		
Part 8	Lay LV (2 x 1C 240mm ² AL) Cable between W29058 & PB4 through HDD conduit & seal both ends of conduit with foam and backfill trench.		
Part 9	Lay HV RMU at Korovuto Junction Pole W27818 to Pole W27824 and backfill trench. Cable: (1 x 3C 95mm ² AL 11kV XLPE)		
Part 10	Install LV Cable from PB5 through PB6, PB7, PB8 & PB9 till Pole W27824 Cable: (2 x 1C 240mm ² AL)		
Part 11	Dig Trench located between W27824 & W29056 via HDD	45	
Part 12	Lay LV (2 x 1C 240mm ² AL XLPE) Cable from W27824 to W29056 through HDD conduit located near across Koronubu Road & seal both ends of conduit with foam and backfill trench.		
Section C			
Part 1	Drill from PB10 across the Koronubu Road - HDD (1 * 150mm ² Conduit)	25	
Part 2	Dig Trench located between W28637 to Pole W28639	93	
Part 3	Lay LV (2 x 1C 240mm ² AL XLPE) Cable from W28637 to through PB10 & W28639		
Part 4	Lay HV (1 x 3C 95mm ² AL XLPE) Cable from W28637 to Pole W28639		

3. **STAGE 3 – Section A, B, C and D**

The works shall comprise of carrying out Horizontal Directional Drilling (HDD), Trenching, Backfilling, Reinstatement of Roads, berms, drains and Traffic Management Works in reference installation of high voltage and low voltage power cables as per attached **Drawing No: A3 04 N52 154**

Koronubu Road, Ba		Route Length (Approx.)	Total Price (VIP)
Section A			
Part 1	Trench from Pole W28639 to Pole 1	70	
Part 2	Lay LV Cable between Pole W28639 to Pole 1 and back fill Cable: (2 x 1C 240mm ² AL)		
Section B			
Part 1	Drill from Pole 3 across Koronubu Road and Drain towards Pole W29253- HDD (1 * 150mm ² Conduit)	26	
Part 2	Trench on end of HDD located across Koronubu Road after Pole 3 till W29253	56	
Part 3	Lay HV (1 x 3C 95mm ² AL) between W29253 & Pole 3 through HDD conduit & seal and backfill trench.		
Section C			
Part 1	Drill across Tram Line between Pole W28662 & Pole 4 – HDD (1 * 150mm ² Conduit)	10	
Part 2	Dig HV trench from Pole 4 towards Pole W28662 till HDD crossing tram Line & trench from Pole W28662 towards Pole 4 till HDD crossing tram Line	64	
Part 3	Lay HV (1 x 3C 95mm ² AL 11kV XLPE) Cable between Pole 4 to Pole W28662 through HDD conduit crossing Tram Line W27800 & seal both ends of conduit with foam and backfill		
Section D			
Part 1	Dig HV Trench located between Pole 5 to Pole 6	40	
Part 2	Lay HV (1 x 3C 95mm ² AL 11kV XLPE) Cable between Pole 5 to Pole 6		
Part 3	Lay LV (2 x 1C 240mm ² AL) Cable between Pole 5 to Pole 6 and backfill		

GENERAL CONDITIONS

All costs for reinstatement of any road, concrete driveway, footpath, removal of debris and excess material MUST be submitted with the tender.

All traffic management, trenching/backfilling, reinstatement for cabling and ducting works has to be carried out as per FRA & EFL standards.

Progressive payment will be made once the work is inspected and approved by FRA & EFL.

SECOND SCHEDULE

1.0 General

This specification covers the carrying out of Horizontal Directional Drilling (HDD), Trenching, Backfilling, Traffic Management and Roads/Footpath Reinstatement Works in reference to **Drawing No:** A3 04 N52 152, A3 04 N52 153, A3 04 N52 154 under conditions of contract attached herein.

2.0 Scope of Work

Work involved in this contract is broadly classified below:

- i) HDD Works**
- ii) Trenching Works**
- iii) Backfilling of trenches**
- iv) Reinstatement of Roads/Berms/Drains/Footpaths/Driveways**
- v) Traffic Management**

2.1 ***Phase One – Horizontal Directional Drilling (HDD)***

- Carry out HDD works up to FRA Standards
- Install conduits across road crossings, driveways, tramlines and footpaths

Note: All Driveways, carriageways and footpaths drilled during Horizontal Directional Drilling Works needs to be re-instated up to the required FRA standards. All debris and excess material is to be cleared from the site.

2.2 ***Phase Two – Trenching/Ducting of cable route***

- Excavation and trenching works for the power cable.
- Cable slabs and underground marker tapes to be used whenever required appropriately as per EFL standards when laying of ducts and cables.
- To be clear from other existing underground services as per EFL standard

2.3 ***Phase Three – Backfilling of trenches***

- i) Apply suitable layer of sand bedding (to be supervised by EFL).
- ii) Backfill sand on top of cable to height specified by EFL site supervisor.
- i) Backfill remainder of trench with trench soil.
- ii) Backfilling and reinstatement of road crossings, driveways and footpath needs to be done to FRA Standards

All materials (cable and slab) are to be transported to work site by the contractor.

“The contractor is responsible for ensuring that all unused excavated soil is laid neatly on top of the trench to allow for soil subsidence where possible. Any un-used excess soil is to be cleared and dumped at a site specified by EFL Supervisor at the contractors cost. All left over materials is to be returned to the EFL Navutu Stores and credited accordingly.”

Fine Sand, material and Base Course Aggregates (AP65/AP40) shall be supplied by EFL.

All the works for phase three must be as per the specifications, and it shall conform to all aspects of the standards outlined in the "Standard Overhead Line Design and Construction Manual and Underground Requirements", guideline set up by EFL. It should also comply with the FRA's road maintenance standards.

Note: All Driveways, roads carriageways, berms, drains and footpaths excavated during trenching works needs to be reinstated up to the required FRA Standards. All roads crossings must be filled with appropriate aggregate material immediately.

2.4 **Phase Four – Traffic Management**

- i) Apply suitable Traffic Management processes at various sections of the project
- ii) All trenches to be barricaded properly at all times and be safe to the general public
- iii) Provide a temporary walkway if footpath is being excavated
- iv) Consult with EFL Supervisor first before any temporary road/lane closure is done on site
- v) FRA reps will be monitoring the traffic management works on a regular basis to ensure compliance

2.5 **Phase Five – Reinstatement of Roads/Berms/Drains/Footpaths/Driveways**

- i) Any opening of trenches on roads/footpaths/driveways/berms and drains shall be immediately backfilled after completion of works with appropriate aggregates/material and compacted with a tamping rammer
- ii) Appropriate Sealing works and Concrete reinstatement to follow within 2 days of the completion of works
- iii) Sealing works on roads to be done to FRA Standards
- iv) Roads/footpaths/driveways/berms and drains reinstatement to be done to FRA Standards.

Note: All Driveways, carriageways, berms, drains and Footpaths trenched/excavated during the Trenching & Ducting Works needs to be re-instated up to the required FRA standards. All debris and excess material is to be cleared from the site and to contractors arranged site.

CONTRACTOR REQUIREMENTS

Notes:

- a) **Bidders to submit copies of EFL training records with current validity.**
- b) Safety Plan to be included in tender bid.
- c) Safety Report for 2021, 2022 to be submitted with tender.
- d) List of Construction projects completed for EFL to be submitted with tender.
- e) Contractor shall provide photo ID of all employees who will be working on the project, clearly indicating their Employment/FNPF number and Job Description.
- f) Cable Jointer Certificates to be included in tender bid.
- g) **Please pay specific attention to Clause 19, Contractor Requirements: “Transportation of Material”** – The Contractor shall load and transport all materials from the EFL Depot (exact depot dependent on project location) to worksite, EXCEPT concrete poles, which may be picked up from Humes Depot, or otherwise as specified by EFL”.
- h) The installation HDD underground ducts shall be carried out under direct EFL supervision.
- i) All work requiring EFL supervision shall be carried out during normal working hours.
- j) **In the event that the contractor carries out work which requires EFL supervision after normal working hours, the contractor shall pay for the overtime costs incurred. A prior notice needs to be given to EFL at least 5 working days in advance.**

EFL REQUIREMENTS

- EFL Project Supervisor shall obtain Road/footpath opening permits.
- EFL Project Engineer shall obtain clearance from Fiji Roads Authority, Municipal Council, Telecom Fiji Ltd, Water Authority of Fiji, and Sewerage Department.
- EFL's HSE Unit shall vet Safety Plan submitted by Contractor and approve after queries clarified by Contractor.
- EFL Project Engineer shall ensure that any EFL underground mains on the jobsite is clearly located, marked and identified to the Contractor.
- EFL Project Engineer shall submit to the Project Manager all necessary approval documentation from Fiji Roads Authority, Municipal Council, Telecom Fiji Ltd, Water Authority of Fiji, and Sewerage Department. Upon receipt of these approvals, and the approved Safety Plan, the Project Manager shall issue an "Instruction to Commence Work" to the Contractor.
- EFL 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.
- EFL 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.

Contractor Name/Stamp

BUSINESS COMPLIANCE CHECKLIST

Compliance - The following documents are to be provided with the tender bid:

No.		Check (v)
1	Tax Compliance Certificate from FRCA	
2	Business Registration details	
3	FNPF Compliance Certificate	
4	FNU Compliance Certificate	
5	Evidence of manpower employment (e.g. payroll listing, etc.)	
6	Project Team Composition of the team executing the works, including photo IDs, qualification of personnel	
7	Insurance cover details – Public Liability, Workers Compensation, Contractor’s all risk	

Bidders are to ensure that the above item are included as part of their bid. Failure to provide documentation for the above will disqualify the bid.

TENDER CHECKLIST

The Bidders must ensure that the details and documentation mention below must be submitted as part of their tender Bid

Tender Number _____

Tender Name _____

1. Full Company / Business Name: _____

(Attach copy of Registration Certificate)

2. Director/Owner(s): _____

3. Postal Address: _____

4. Phone Contact: _____

5. Fax Number: _____

6. Email address: _____

7. Office Location: _____

8. TIN Number: _____

(Attach copy of the VAT/TIN Registration Certificate - Local Bidders Only (Mandatory))

9. FNPF Employer Registration Number: _____ **(For Local Bidders only) (Mandatory)**

10. **Provide a copy of Valid FNPF Compliance Certificate (Mandatory- Local Bidders only)**

11. **Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory Local Bidders only)**

12. **Provide a copy of Valid FNU Compliance Certificate (Mandatory Local Bidders only)**

13. Contact Person: _____

I declare that all the above information is correct.

Name: _____

Position: _____

Sign: _____

Date: _____

Tender submission

Bidders are requested to upload electronic copies via Tender Link by registering their interest at: <https://www.tenderlink.com/efl>

EFL will not accept any hard copy submission to be dropped in the tender box at EFL Head Office in Suva.

This tender closes at 4:00 p.m (1600hrs Fiji time) on Wednesday 17th January, 2024.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360** or **(+679) 9992400** or email us on tenders@efl.com.fj

The bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act. Bidders are to clearly state the percentage of VAT that is applicable to the bid prices.

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

The Tender Bids particularly the “Price” must be typed and not hand written.

Any request for the extension of the closing date must be addressed to EFL in writing three (3) working days prior to the tender closing date.

Tender Submission via email or fax will not be accepted.