



ENERGY FIJI LIMITED

BIDDING DOCUMENT

MR310/2019

**TENDER SPECIFICATION FOR CIVIL WORKS
AT BELO STREET KIOSK SUBSTATION**

Section 1. Instructions to Bidders

- 1. Scope of Bid** The Energy Fiji Limited (hereinafter referred to as "the Employer"), wishes to receive bids for Civil Works at Belo Street Substation as specified in these bidding documents
- 2. Eligible Bidders** This Invitation to Bid is open to bidders who have sound financial background and have previous experience.
- Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer as the Employer shall reasonably request.
- Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent.
- 3. Eligible Materials, Equipment and Services** Any materials utilized for the Civil Works at Belo Street Kiosk Substation under the Contract shall have their origin from reputable sources. The bidders may be required to provide evidence of the past experience in construction and civil works.
- 4. Qualification of the Bidder** To be qualified for award of Contract, bidders shall submit proposals regarding work 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 or liable for those costs.
- 6. Sealing and Marking of Bids** The bidder shall seal the original copy of the technical proposal, the original copy of the price proposal and each copy of the technical proposal and each copy of the price proposal in separate envelopes clearly marking each one as: "ORIGINAL-PROPOSAL", and "COPY PROPOSAL", etc. as appropriate.
- The bidder shall seal the original bids and each copy of the bids in an inner and an outer envelope, duly marking the envelopes as "ORIGINAL" and "COPY".
- The inner and outer envelopes shall be addressed to the Employer at the following address:
- Tuvitu Delairewa
General Manager Commercial
2 Marlow Street, Suva, FIJI. Phone: 679 3224 185
Facsimile: 679 331 1882 Email: TuvituD@efl.com.fj
And bear the following identification:
- Bid for: Civil Works at Belo Street Kiosk Substation
 - Bid Tender Number: MR 310/2019
- 7. Deadline for Submission of Bids** Bids must be received by the Employer at the address specified above no later than 1600 hours (Fiji Time) (**Wednesday 30/10/2019**).
- The Employer may, at its discretion, extend the deadline for submission of bids by issuing an addendum, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadlines extended.

- 8. Late Bids** Any bid received by the Employer after the deadline for submission of bids prescribed will be rejected and returned unopened to the bidder.
- 9. 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.
- 10. Employer's Right to Accept any Bid and to Reject any or all Bids** The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Employer's action.
- 11. 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 Acceptance") shall name the sum which the Employer will pay the Contractor in consideration of the execution, completion and maintenance of the Works by the Contractor 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.
- Upon the furnishing by the successful bidder of a performance security, the Employer will promptly notify the other bidders that their bids have been unsuccessful.
- 12. Signing of Contract Agreement** At the same time that he notifies the successful bidder that its bid has been accepted, the Employer will send the bidder the Form of Contract Agreement provided in the bidding documents, incorporating all agreements between the parties.
- Within 7 days of receipt of the Form of Agreement, the successful bidder shall sign the Form and return it to the Employer.
- 13. Corrupt or Fraudulent Practices** The Employer requires that the Contractor 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:
- (i) "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

- (ii) "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;
- (b) The EFL will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

A Mandatory site visit to be held on Tuesday 22nd October 2019, commencing at 9.00am at EFL Kinoya Depot.

The deadline for submission of Tenders shall be 1600hrs on Wednesday 30th October 2019, Fiji Standard Time.

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Technical Specifications Belo Street Civil Works

1.0 General Description

The successful bidder is to carry out civil works on EFL's Belo Street Kiosk Substation for Energy Fiji Limited. The civil works comprise of demolition, foundation preparation, trenching, reinstatement and HV/LV cable handling as stipulated below. In addition, the bidder's proposal shall address all functional and performance requirements in terms of timeline, manpower and resource allocation within the specification and shall include sufficient information and supporting documentation in order to determine compliance with this specification without further necessary inquiries. Also note that the bidder is required to use own materials and resources for the civil works and is required to provide traffic and pedestrian management with FRA appropriate barricades, cone and signs for as long as the project persists.

2.0 Specifications

The civil works to be carried out is to be divided into 5 phases and to be completed within 5 consecutive weeks from phase 1 (week 1). Below is the strict EFL timeline to be complied by the bidder. Under no circumstances is the bidder to differ any works -the postponement of works and alterations in the timeline will be dictated by the employer only. If the bidder fails to comply with the time line then the bidder will be required to increase their materials and resources in order to compensate for the days lost at no cost to the employer.

Listed below are the various phases of the project, their scope of works and stipulated completion period- **The bidder is to list their bid price in VIP FJD with respect to each of the 5 phases followed by a total cost in FJD VIP.**

Phase	EFL Scope of Works	Week	Bidder Price (FJD VIP)
1	<p>HV/LV trenching and cable laying works commence;</p> <p>1.1. Dig HV trench from Belo St Sub to Temporary Pad-mount and also expose route of 2 x HV Cables emanating from Belo Street Kiosk Substation (30m). 1.2. Lay 2 x 240mm² 3C HV Cable from Belo St Sub to Temporary Padmount. 1.3. Carry out HV Earthing. 1.4. Dig Trench for LV cable from Temporary Padmount to Belo St Sub and also expose route for existing LV cable from Belo Street Sub to overhead pole (30m). 1.5. Lay 2 x LV Cable. 1.6. Carry out LV Earthing.</p> <p>Phase 1 to complete before the end of week 1.</p>	1	\$ _____
2	<p>2.1. HV/LV trench reinstatement after EFL Jointing, Termination and temporary pad-mount installation. Note that reinstatement shall be carried out prior to transformer commissioning as and when specified by the EFL supervisor.</p> <p>2.2 Assist EFL Team to remove old assets (Transformer, Switchgear, LV board, HV and LV cables etc.) from Belo Street Kiosk Substation.</p> <p>Phase 2 to complete before the end of week 2.</p>	2	\$ _____
3	<p>3.1 Demolition works on Existing EFL Substation and remove waste and debris from site.</p>	3	

	<p>3.2 Conditioning and preparation of existing concrete foundation of Belo Street Kiosk Substation for new Pad-mount transformer in same location as the demolished Belo Street Kiosk EFL substation. (Note that the conditioning and preparation of the existing concrete foundation to be in accordance with Standard EFL Pad-mount Plinth dimensions and loading capacity.)</p> <p>*the above includes Cutting, Reinforcement and Plastering of concrete Belo Street Kiosk Substation foundation with respect to the HV and LV cable entry to the new EFL Pad-mount transformer.</p> <p>Phase 3 to complete before the end of week 3.</p>		\$ _____
4	<p>HV/LV trenching works commence to re-expose cables laid in Phase 2;</p> <p>4.1. Dig trench for HV cables from outside Belo St Sub to Temporary Pad-mount also expose route of HV Cables that will be emanating from Belo Street Kiosk Substation (30m).</p> <p>4.2. Dig Trench for LV cable from Temporary Pad-mount to Belo St Sub and also clear route for LV cable that will be emanating from Belo Street Sub to overhead pole (30m).</p> <p>Phase 4 to complete before the end of week 4.</p>	4	\$ _____
5	<p>5.1 Assist EFL team with re-routing HV and LV cables to new EFL Pad-mount Transformer installation on Concrete Plinth/Reconditioned Belo Street Kiosk Substation Foundation.</p> <p>5.2 HV/LV trench reinstatement after EFL Jointing, Termination and new EFL pad-mount installation. Note that reinstatement shall be carried out prior to transformer commissioning as and when specified by EFL supervisor.</p> <p>Phase 5 to complete before the end of week 5.</p>	5	\$ _____
TOTAL BID PRICE FJD VIP			\$ _____

2.1 Site Detail

Below are indications of the proposed works site;



Figure 1 MAP Location of Belo Street site

2.2 Trenching Layout

Depicted below are the proposed trenching layout of Belo Street Civil works. The depictions below are just guidelines and brief overview of the proposed works at site. The detail in the trenching works will be discussed in the site visit.

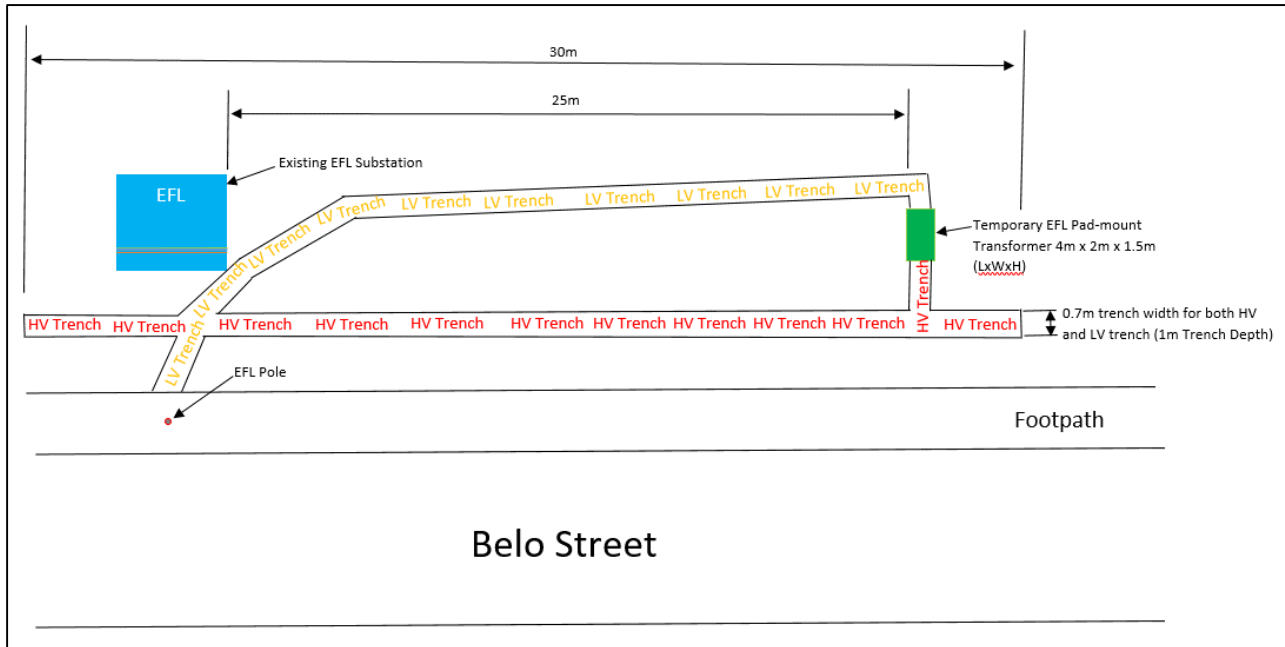


Figure 2 Belo Street Proposed Trenching Layout

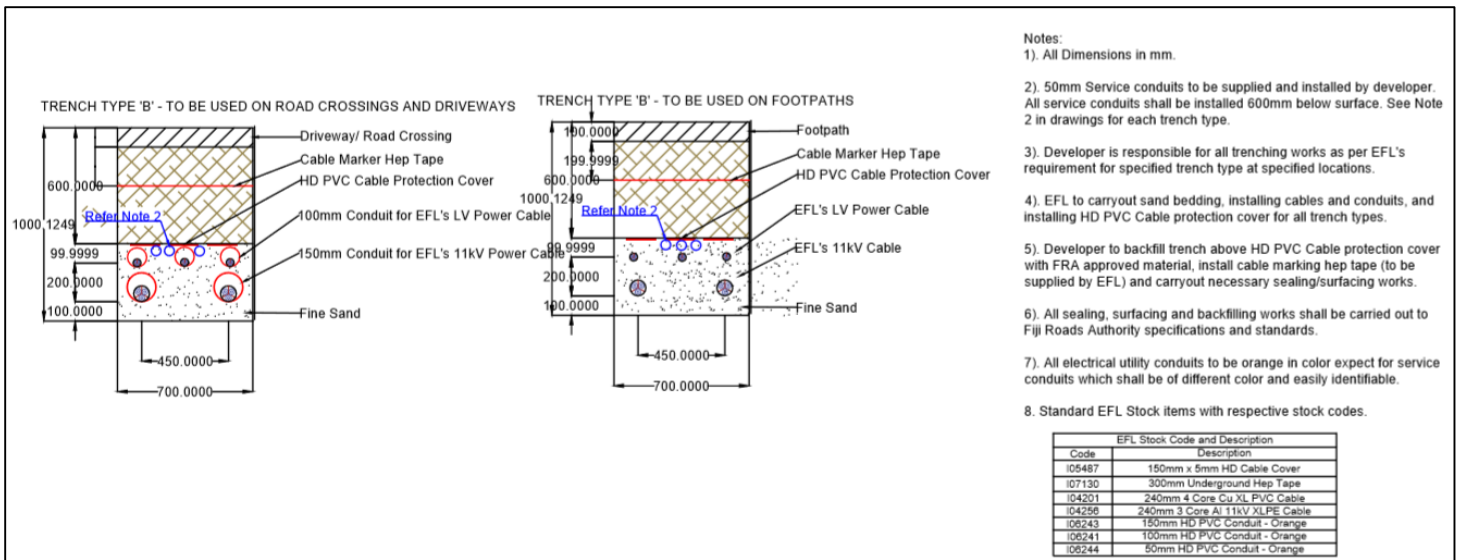


Figure 3 EFL Standard Trench Cross Sectional Layout

2.3 Belo Street Kiosk Substation Foundation Preparation and Conditioning Criteria

The Belo Street Kiosk Substation Foundation, after the demolition of its walls and roof shall be prepared and conditioned to withstand weight of 5000kg. The dimension of the transformer plinth/ foundation is as follows:

Size	Overall Length	Overall Width	Overall Height	Total Withstand Mass
500kVA	3230mm	2000mm	600mm	5000kg

Note: The dimensions may vary for Belo Street Kiosk Substation Foundation, however, the ability of the foundation to withstand the mass of the Pad-mount must hold. Any concrete mix if required shall be of 30MPA for the foundation. Hand-mix plaster is ok for smoothening of rough surfaces.

Below are installation details of the cable in the vicinity of the Pad-mount foundation/plinth;

- a) The cable trench excavation, cable installation and trench backfill are covered by other specification.
- b) Normal trench backfilling shall not be used in the area to be covered by the reinforced concrete plinth.
- c) An area extending 300mm outside the edges of the plinth shall be excavated to the level as follows:
 - I. In Stiff Clay, sandstone or fully compacted to dig around 200mm below finished ground level.
 - II. In Firm Clay to dig around 350mm below finished ground level.
 - III. In Soft Clay or Soil to dig around 450mm below finished ground level.
- d) This Area shall be backfilled with Compacted Granular hard fill then covered with a 50mm level layer of sand.
- e) Earthing conductors shall be installed in the cable trenches before the base is installed.

The Foundation/Plinth shall be conditioned and prepared as per attached plan. Recommended Foundation Plan for Concrete Bases as Follows:

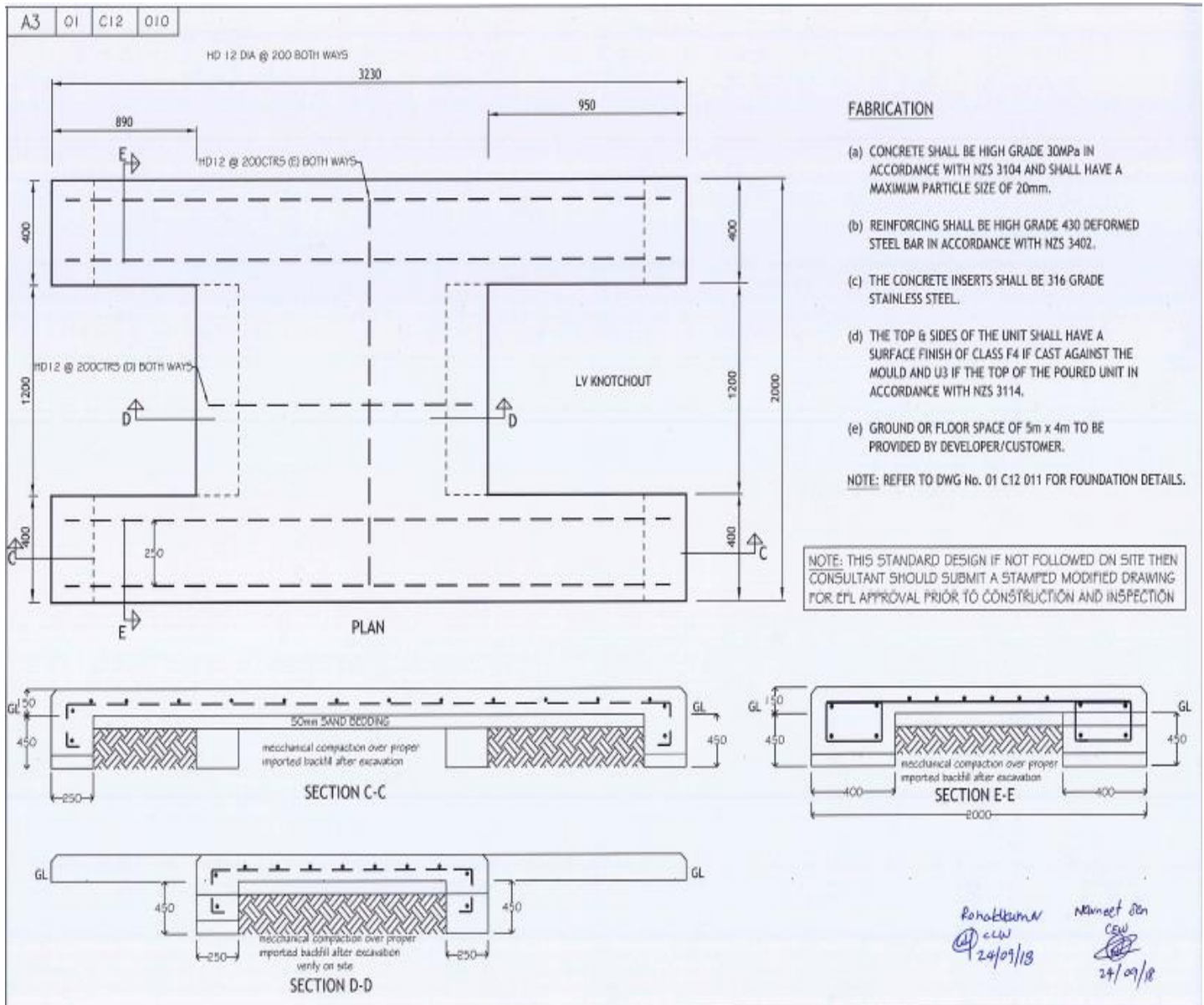


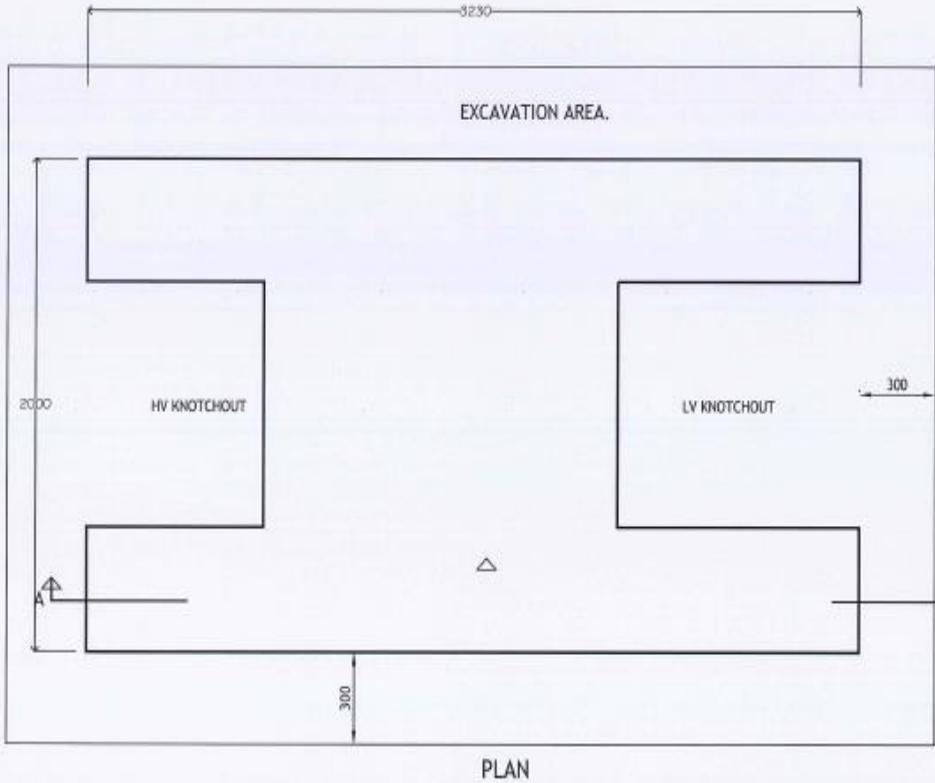
Figure 4 - shows the foundation plan for a standard transformer plinth

TYREE TRANSFORMER DIMENSIONS & WEIGHT DETAILS

LVA	OVERALL LENGTH	OVERALL WIDTH	OVERALL HEIGHT	GROSS WEIGHT (KG)
300	2950	1370	1522	3405
500	2950	1370	1522	3000
750	2950	1500	1642	4580
1000	2950	1500	1642	5290

INSTALLATION

- A. THE CABLE TRENCH EXCAVATION, CABLE INSTALLATION AND TRENCH BACKFILL ARE COVERED BY OTHER SPECIFICATIONS.
- B. NORMAL TRENCH BACKFILLING SHALL NOT BE USED IN THE AREA TO BE COVERED BY THE REINFORCED CONCRETE PLINTH.
- C. AN AREA EXTENDING 300mm OUTSIDE THE EDGES OF THE RC PLINTH SHALL BE EXCAVATED TO THE LEVEL AS FOLLOWS:
 - 1-IN STIFF CLAY, SANDSTONE OR FULLY COMPACTED (MECH) TO DIG AROUND 200mm BELOW FINISHED GROUND LEVEL.
 - 2-IN FIRM CLAY TO DIG AROUND 350mm BELOW FINISHED GROUND LEVEL.
 - 3-IN SOFT CLAY OR SOIL TO DIG AROUND 450mm BELOW FINISHED GROUND LEVEL.
- D. THIS AREA SHALL BE BACKFILLED WITH COMPACTED GRANULAR HARD FILL THEN COVERED WITH A 50mm LEVEL LAYER OF SAND.
- E. EARTHING CONDUCTORS SHALL BE INSTALLED IN CABLE TRENCHES BEFORE THE BASE IS INSTALLED..
- F. FOR BASE FABRICATION DETAILS REFER DRWGS ABOVE.
- G. GL IS FINAL 'GRANULAR LEVEL' OVER BACKFILL AFTER FULL COMPACTION



SECTION A-A

*Ronald James Navroet Sen
@ecw
24/09/18
CEW
24/09/18*

NOTE: THIS STANDARD DESIGN IF NOT FOLLOWED ON SITE THEN CONSULTANT SHOULD SUBMIT A STAMPED MODIFIED DRAWING FOR EFL APPROVAL PRIOR TO CONSTRUCTION AND INSPECTION

Figure 5- shows the foundation plan and elevation for a standard transformer plinth

Note: The LV Knotchout shall be 950mm in length for the installation of 500kVA Pad mount transformer.

3.0 Relevant Standards

While construction, the Bidder should comply with NZS3104 (Specification for concrete production), NZS 3402 (Steel bars for the reinforcement of concrete) and NZS 3114 (Specification for concrete surface finishes) standards.

4.0 Technical Specification Criteria

Note to bidders: Please submit a copy of the table below with your products details (in the BIDDERS PRODUCT DETAILS column) in comparison to what is required by the employer.

No.	Requirements	EFL Requirements	Bidder to Submit
1	Tax Compliance Certificate	Submit Valid certificate	
2	FNPF Compliance Certificate	Submit Valid certificate	
3	Business Registration Certificate	Submit Valid certificate	
4	Workers Compensation Insurance	Submit Valid certificate	
5	Public Liability Insurance	Submit Valid certificate	
6	Past Experience in construction of Pad mount Plinth or similar concrete construction works	Bidder to Specify	
7	Concrete Ready Mix (if required)	30MPa	
8	Removal of debris from site and disposal by bidder at suitable location	Agreement by bidder	
9	Construction timeframe	Agreement to timeframe stipulated in bid	
10	Cable Jointer Certificate	Cable Jointer certificate for cable trenching works	
11	Man Power Listing	Also state how many employees will be dedicated to the project on a full time basis.	

TENDER SUBMISSION CHECK LIST

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

Tender Number _____

Tender Name _____

1. Full Company 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)

9. Company Registration Number: _____

(Attach copy of the Business License)

10. FNPF Employer Registration Number: _____

(For Local Bidders only)

11. Contact Person: _____

I declare that all the above information is correct. Name:

Position: _____

Sign: _____ Date: _____

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 EFL 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 30th October, 2019.

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

MR 310/2019
Carry out Civil Works for Belo Street Substation, Samabula, Suva

The Secretary, Tender Committee
Energy Fiji Limited
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**