



ENERGY FIJI LIMITED

TENDER DOCUMENT

MR345 / 2019

**Surveying Services for Nadarivatu Towers 1, 12,
& 14**

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PART 1

INSTRUCTIONS FOR TENDERERS

1.	Scope of Bid	The Energy Fiji Limited (hereinafter referred to as "the Employer"), wishes to receive bids for supply of Surveying Services for the foundations of Towers 1, 12 & 14 on the Nadarivatu 132kV Transmission Line, as specified in these bidding documents.
2.	Eligible Bidders	<p>This Invitation to Bid is open to bidders who have sound technical and financial background and have relevant previous experience.</p> <p>Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer as the Employer may reasonably request.</p> <p>Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent practices.</p>
3.	Qualification of the Bidder	To be qualified for award of Contract, bidders shall submit proposals regarding manufacturing and construction methods, scheduling and resourcing which shall be provided in sufficient detail to confirm the bidder's capability to fulfil the supply contract.
4.	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.
5.	Sealing, Marking and Submission of Bids	<p><u>Electronic Submission of Bids</u></p> <p>It is mandatory for Bidders to upload an electronic submission their bid in the TENDER LINK Electronic Tender Box no later than 4:00pm, on Wednesday 4th of December, 2019.</p> <p>To register your interest and tender a response, view 'Current Tenders' at: https://www.tenderlink.com/efl</p> <p>For further information contact The Secretary Tender Committee, by e-mail TDelairewa@efl.com.fj</p> <p>Tenders received after the closing date shall not be considered.</p> <ul style="list-style-type: none">➤ will not be considered.➤ Lowest bid will not necessarily be accepted as successful bid.
6.	Deadline for Submission of Bids	<p>Bids must be received by the Employer at the address specified above 4:00pm or 16:00hrs, on Wednesday 4th of December, 2019.</p> <p>The Employer may, at its sole 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.</p>

7.	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.
8.	Modification and Withdrawal of Bids	<p>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.</p> <p>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.</p> <p>No bid may be modified by the bidder after the deadline for submission of bids.</p>
9.	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.
10.	Notification of Award	<p>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.</p> <p>The Employer will promptly notify the other bidders that their bids have been unsuccessful.</p>
11.	Corrupt or Fraudulent Practices	<p>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:</p> <p>(a) defines, for the purposes of this provision, the terms set forth below as follows:</p> <p>(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</p> <p>(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;</p> <p>(b) 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.</p>

PART 2

TENDER LETTER AND APPENDICES OF SUPPLEMENTARY INFORMATION

TENDER LETTER

Contract No.: MR345 / 2019
Contract Name.: Nadarivatu T14 Foundation Lowering

TO: Energy Fiji Limited
2 Marlow Street
Suva
FIJI

(COMPANY LETTERHEAD) _____

1. In response to your Invitation to Tender for Contract No. MR345 / 2019, dated _____ 2019 and having examined all parts of the Tender Document, we the Undersigned, offer to execute the said Works in conformity with the Tender Documents and Notices to Tenderers, for the sum of _____ (\$ _____) excluding GST. The currency of this offer and for payment is _____.
3. We undertake if our Tender is accepted to commence work on the Contract upon receipt of the Letter of Acceptance and to complete and deliver the whole of the Works comprised in the Contract within the Time for Completion.
5. We agree that this Tender shall constitute a binding offer for the period of 180 days from the date fixed for receiving the same and that it may be accepted at any time before the expiration of that period.
6. Unless and until a formal Contract Agreement is prepared and executed this Tender, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We understand that you are not bound to accept the lowest or any Tender you may receive.
9. We acknowledge that we are aware of the requirements of the Drawings, Standards and Specifications listed in the Tender Documents.

Attached and made a part of this proposal are all data required by the Tender Document.

Notices to Tenderers received and allowed for in this Tender are:

Tenderer: (Name) _____ Title: _____

Signature: _____

Duly authorised to sign Tenders for and on behalf of

Company: _____

Business Address: _____

Business Telephone: _____ Date: _____

APPENDIX TO THE TENDER LETTER

1.0 SUPPLEMENTARY INFORMATION

The following information shall be submitted with the Tender:

1.1 Form A - Exceptions and Deviations

The Tenderer shall detail each exception to or deviation from the Tender Document.

1.2 Form B - Contract Programme

The Tenderer shall provide a programme for the Contract.

1.7 Form C – Project Methodology

The Tenderer shall provide a method statement in the format provided in Form C.

1.8 Form D – Company Profile and Organisation Structure

The Tenderer shall provide details on the company profile, its proposed resources and Contract structure in the format provided in Form D.

1.9 Form E – Schedule of Prices

The Tenderer shall complete the Schedules of Prices indicating the make up of the Tender sum. The Schedules shall be completed in the format provided in Form E.

1.9 Form F – Terms of Payment

This form lists the terms of payment proposed for the Contract. The Tenderer is to confirm their acceptance or propose alternative terms.

FORM A - EXCEPTIONS AND DEVIATIONS

Tenderer's Name _____

List below any exceptions and deviations proposed to any part of the Tender Documents. Precise reference to appropriate clauses or sub-clauses is essential. No amendments to the Tender Document will be recognised unless expressly listed herein. If no exceptions or deviations are proposed by the Tenderer, **enter "None" below.** **If any modification to the original Tender is proposed after submission of the Tender, but before the closing date, a revised Form A should be submitted if appropriate.**

FORM B - CONTRACT PROGRAMME

The Tenderer shall specify the anticipated duration of the works and period from notification to starting the works.

FORM C – PROJECT METHODOLOGY

Tenderer's Name _____

The Tenderer should to list below an outline of the proposed construction method. The outline should include such items as:

1. A step by step narrative of the proposed method of construction of the Works.
2. An indication of number and type of vehicles and plant required to be on site during the contract period.
3. An indication of other objects, structures, platforms that will be brought onto site to complete the Works.
4. Details of equipment and services required to be supplied by the Client to assist with the works.

FORM D – COMPANY PROFILE AND ORGANISATION STRUCTURE

Tenderer's Name _____

The Tenderer should provide the following details:

1.0 Company Profile

Give details of the Company Profile.

2.0 Personnel

Give details of the proposed organisation structure including key personnel.

Competencies records and CV's for key staff to be involved with this project, as well as competency approval procedures for staff to be engaged for this project.

Training, as appropriate for site staff to be engaged for this project.

3.0 Facilities

Gives details on the staff accommodation proposed for the works.

FORM E - SCHEDULE OF PRICES

Tenderer's Name _____

NOTES TO THE SCHEDULE OF PRICES

1.0 The Tender is for a Fixed Price Lump Sum

- (a) The Schedule of Prices should be completed and will be used to assess payments due to the Contractor and where appropriate, will be used in valuation of the variations.
- (b) Detailed descriptions of works and materials required have not been repeated in the Schedule of Prices.
- (c) Anything not specifically listed in the Schedule of Prices but necessary to complete the Works in accordance with the Contract, shall be deemed to be included in the rates and prices listed against the appropriate item of the Schedule of Prices.
- (e) The Schedule of Prices will be read in conjunction with the remainder of the documents comprising the Contract.
- (f) The rates and prices indicated in the Schedule of Prices should include for labour, materials, sub-contractors, constructional plant and equipment, preliminary and general items, including clearance of site during the Works and on completion and making good, for all on-site and off-site overheads, other costs of whatever nature and profit.
- (g) A rate or price should be entered against each item within the Schedule of Prices.

In the event that a price is not entered against any item, the cost of that item is deemed to be included elsewhere in the Schedule of Prices.
- (h) All rates and prices should be exclusive of Goods and Services Tax.

FORM E - SCHEDULE OF PRICES

Tenderer's Name _____

Item	Description	Qty	Cost Amounts (\$)
			Total
1	Project Management and Administration	LS	
2	Travel	LS	
3	Staff Accommodation	LS	
4	Survey and marking of T1, T12 and T14 foundations	LS	
5	Training of EFL Survey Team	LS	
6	Provision of 12D software	LS	
7	Supply of 1 x Tripod, 1 x Target Prism and 1 x Prism Pole	LS	
8	Supply a brief report and electronic data in XYZ csv format and as a DWG file.	LS	

FORM F – TERMS OF PAYMENT

Tenderer's Name _____

The terms of payment are to be as listed below:

1. Payment for items 6 and 7 shall be made 5 working days after award of the Contract.
2. Payment for all items except items 6 and 7 shall be made in full within 20 days of completion of the works.

The Tenderer should list proposed alternative terms of payment if the above terms are not acceptable.

PART 3

PROGRAMME OF WORKS

Programme

The key scheduled dates are set out below and the Works are to be executed in the time frames given:

Tenders Close	4 th December 2019
Contract Award	20 th December 2019
Project Completion	31 st January 2020

PART 4

TECHNICAL SPECIFICATION CONSTRUCTION WORKS

1. PRELIMINARY AND GENERAL

1.1. Scope of Work

The scope of work, (the Works) generally incorporates the following:

- 1.1.1. Supply of 12d Model Base 100k and Survey module software (see website at 12d.com) with 2 hardware locks and 12 months software support.
- 1.1.2. Supply of 1 x Tripod, 1 x Target Prism (with Tribrach and carrier) and 1 x Prism Pole suitable for use with Leica TS06 and a TS09 total stations.
- 1.1.3. Measurement of foundations, install marker screws and record dimensions A, B, C, D, X and Y as shown on the drawing in Part 5 at each of the 4 foundations at towers 1, 12 and 14 (12 foundations).
- 1.1.4. Record the coordinates of points P1, P2, P3 and P4 as shown on the drawing in Part 5 at each of the 4 foundations at towers 1, 12 and 14 (12 foundations).
- 1.1.5. Provide training for EFL survey staff (group of 3 EFL staff for 2 hours per day for 5 days) on how to use their Leica TS06 and a TS09 total station survey equipment and 12d software.
- 1.1.6. Supply a brief report and electronic data in XYZ csv format and as a DWG file.

1.2. Operational Constraints

This works are away from the temporary transmission line alignment, so there are no particular operational constraints applicable to this works.

1.3. Site Works Planning

A detailed work sequence plan / programme shall be prepared by the Contractor, detailing all activities required for the works. The detailed programme shall be submitted to the Engineer 2 weeks prior to the planned start of the works.

1.4. Site Photos

The Contractor shall take the following photos:

- The foundation and surrounding area before commencement of the work
- The foundation and surrounding area after completion of the work

1.5. Drawings

The work to be undertaken is indicated on the drawings contained in Part 5 of this document as well as other clauses of this specification.

1.6. Works Location

The work is located at Tower 14 on the Nadarivatu 132kV Line at the following location:

Tower No.	Latitude	Longitude
1	17°40'38.13"S	177°54'56.53"E
12	17°42'2.22"S	177°55'32.98"E
14	17°42'23.83"S	177°55'30.70"E

The following Google Earth file also gives the locations - **132kV Nadarivatu - Double Circuit Transmission Line.kmz**

1.7. Supply of 12d Software

The scope of the supply of 12d software (see website at 12d.com) is to be as follows:

- 12d Model Base 100k module
- 12d Survey module software
- 2 hardware locks
- 12 months software support

Software to be registered as owned by EFL.

1.8. Supply of Survey Equipment

The scope of the supply of survey equipment is to be as follows:

- 1 x Leica GST05 wood tripod
- 1 x Leica Professional 3000 GPR111 Prism Reflector with target plate
- 1 x Leica GDF311 Tribrach
- 1 x Leica GRT144 Professional 3000 Carrier
- 1 x Leica GLS111 Telescopic Pole

The Tenderer shall ensure that the above equipment is compatible with each other and with the Leica TS06 and a TS09 total stations.

1.9. Survey

The scope of the survey work at each of the 4 foundations at towers 1, 12 and 14 (12 foundations) is to be as follows:

- Measurement of foundations, install marker screws and record dimensions A, B, C, D, X and Y as shown on the drawing in Part 5. These measurements are to have an accuracy of +/- 1mm.
- Survey and record the coordinates of points P1, P2, P3 and P4 as shown on the drawing in Part 5. These coordinates are to have an accuracy of +/- 2mm.
- Supply a brief report and electronic data in XYZ CSV format and as a DWG file.

The coordinates are to be all in the same closed circuit survey to an arbitrary local datum or datum provided by EFL at the time of the survey.

1.10. Training

The scope of training is to be as follows:

- EFL's survey team go to site with the Tenderer for the T1, T12, T14 survey.
- Tenderer explain the survey process for their survey work (Item 1.1.4 of the scope).
- Tenderer explain and demonstrate the features of the survey instruments (Leica TS06 and a TS09 total stations).
- Tenderer demonstrate the use of 12d software to EFL's survey team, sufficient for them to use for processing the survey data from the tasks below.
- EFL's team survey the T1, T12, T14 foundations independently, asking for assistance where required.
- The results from EFL's survey team survey will be compared to the Tenderer's survey to ensure accuracy. Differences can then be resolved and verified.
- Final debrief to answer any outstanding queries and confirm understanding.
- It is the responsibility of EFL's survey team to write sufficient notes to ensure that the learning is not forgotten.

2. MATERIALS, EQUIPMENT AND SERVICES PROVIDED BY CLIENT

2.1. General

The Employer is responsible for liaison with landowners and authorities for the purpose of provision of access and implementation of the site works. The Employer will obtain the appropriate regulatory and statutory approvals for the works. The Contractor must obtain confirmation from the Employer that all necessary approvals are in place before they begin site works.

2.2. Traffic Control

Traffic control, if required, will be provided by the client.

2.3. Transport to site

EFL staff will meet at the junction of Kings Road and Nadarivatu Road (17°26'26.09"S, 177°53'31.48"E) at 8am each morning to accompany the Contractor and equipment to site, returning to the same location at 6pm. Transport to site is approximately 1.25 hours, giving a working day of 7.5 hours.

PART 5

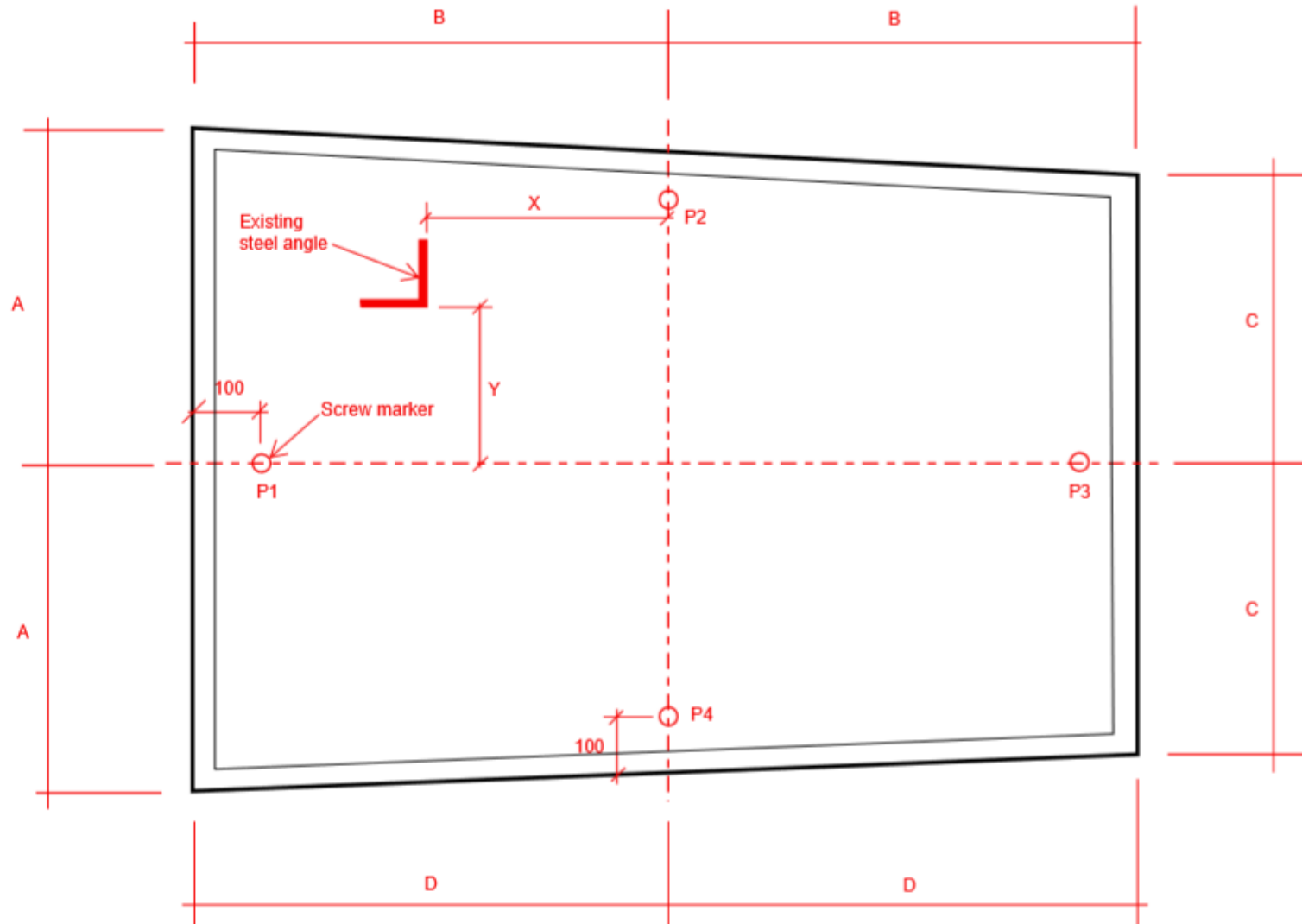
DRAWINGS

DRAWING LIST

Drawing No.	Description
-	Diagram showing the required measurements, marking and survey point locations.



The foundations are theoretically 1.7m x 1.7m,
but may in practice not be square,
so need to establish center lines and screw markers
Provide measurements A, B, C, D, X and Y
Provide coordinates of points P1, P2, P3 and P4



Submission of Tender

It is mandatory for Bidders to upload a copy of their bid in the TENDER LINK Electronic Tender Box no later than 1600hrs, **Wednesday 4th December, 2019.**

To register your interest and tender a response, view 'Current Tenders' at: <https://www.tenderlink.com/efl>

For further information contact The Secretary Tender Committee, by e-mail: TDelairewa@efl.com.fj

Electronic copies of tender must be uploaded in the tender link no later than 1600hrs, Wednesday, 4th December, 2019 - Addressed as: Tender –

MR 345/2019 – Surveying Services for Nadarivatu Towers 1 , 12 & 14

The Secretary Tender Committee
Energy Fiji Limited
Head Office
Suva, Fiji

Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and it is dispatched before the closing date and time.

Tenders received after closing time 1600hrs, Wednesday, 4th December, 2019.

- Will not be considered.

Lowest bid will not necessarily be accepted as successful bid.

It is the responsibility of the bidder to pay courier chargers and all other cost associated with the delivery of the hard copy of the Tender submission.

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: _____