# **Energy Fiji Ltd**



MR148/ 2022 HOUSE WIRING PROJECT

**SCHEME: NA18-18** 

NAVO SETTLEMENT, NADI

# **Table of Contents**

1.	INTRODUCTION	3
2.	GENERAL	3
3.	INSTRUCTIONS TO BIDDERS	4
4.	TECHNICAL SPECIFICATIONS	5
5.	PAYMENT TERMS & REQUIREMENTS	8
6.	TENDER SUBMISSION DETAILS	10
7.	GENERAL	11
8.	CLOSING DATE	11
9.	TENDER EVALUATION CRITERIA	11
API	PENDIX 1: LIST OF CUSTOMERS TO BE WIRED (NA 18-18)	13
SCF	HEDULE 1: TENDER FORM (EFL MR 148 /2022)	14
SCF	HEDULE 2: LIST OF PERSONNEL ENGAGED IN HOUSE-WIRING	15
SCF	HEDULE 3: COMPLIANCE CHECKLIST	16
SCF	HEDULE 4: SCHEDULE OF PRICES	17
SCF	HEDULE 5: LIST OF MATERIALS	18
SCF	HEDULE 6: WORK SCHEDULE & TIMELINES	19
SCF	HEDIILE 7: HSE ANALYSIS & PLAN	20

### 1. INTRODUCTION

Energy Fiji Ltd is a limited liability organization responsible for generating, transmitting, distributing and retailing electricity to over 200,000 customers throughout the main islands of Fiji namely: Vitilevu, Vanualevu, Ovalau & Taveuni.

As part of its obligations to the Government of Fiji, it has been recently tasked with project management and supervision of House Wiring Projects for Rural Electrifications Schemes for the year 2022.

### 2. GENERAL

Energy Fiji Limited (hereinafter referred to as "the Employer"), wishes to receive bids from valid licensed electrical contractors for House Wiring under the Rural Electrification EFL Scheme NA18/18 – Supply to Navo Settlement, Nadi.

Bidders are required to supply and install appropriate materials for wiring up houses to standard requirements as per the AS/NZS 3000:2018 Wiring Rules.

House Wiring shall be carried out for 2 lights & 1 GPO per customer.

A total of Two (2) domestic customers (refer Appendix 1 for list), are associated with this Rural Electrification Scheme in Navo Settlement, Nadi (as per EFL Scheme # NA18/18) are covered in this tender. Both are totally new customers and need their homes/installations wired to AS/NZS 3000:2018 standards.

Due to the nature of the work required, it is strongly recommended that a proper assessment of each individual household is carried out so as to ascertain the correct amount of work that is necessary.

For the purpose of supervising the contract on behalf of the EFL, references in the General Conditions shall include the Manager Regulatory or his/her designated officer. The Project Manager shall be the Manager Regulatory and the Project Supervisor shall be the Project Technicians.

### 3. INSTRUCTIONS TO BIDDERS

#### a. Eligible Bidders

- Bidders shall submit a copy of valid Electrical contracting license and electrical wireman's license.
- Bidders with sound financial background and with successful record in past house wiring records
- 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.

### b. 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 fulfill the contract.

"Qualified Electrician – The successful bidder (Electrical Contractor) shall ensure that the Project Team comprises a <u>minimum</u> of three (3) personnel, at least one of whom shall be a registered Electrician with valid Wireman's License. The remaining team members shall comprise of Junior Electricians and Labourers working on the project on a <u>full time basis</u>.

Records of these personnel shall be submitted with the bid. It is the responsibility of the electrical contractor to ensure that names of all workmen is also registered with EFL Regulatory Licensing Department.

Contractors unable to submit sufficient evidence that they meet this key requirement shall not be considered.

The successful bidder/contractor shall make its own arrangement for ordering, collection of the materials and delivery to the site.

#### c. 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.

All costs pertaining to the first inspections of each of the 3 stages described in the Payment Schedule, will be catered for by EFL.

All costs relating to subsequent inspection as a result of incomplete and / or defective work (because of the contractor contravening or deviating from the main contract or the specifications stated within the tender document) will be borne by the contractor. This will be deducted from the overall contract price. It should be noted that apart from the above; EFL will undertake its own inspection of all works as per the requirements of the Electricity Act. All costs that shall arise as part of the EFL inspection will be the contractor's responsibility to pay.

#### d. 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.

#### e. Notification of Award

Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder by 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, and completion 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 an acceptance letter, the Employer will promptly notify the other bidders that their bids have been unsuccessful.

#### f. 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.

### g. 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) 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.

### 4. TECHNICAL SPECIFICATIONS

A strict adherence to the specifications provided in this document need not be over-emphasized; and as such all contractors are advised to strictly observe the requirements provided in this document either technical or otherwise.

Should any of the requirements contravene the Standards AS/NZ 3000:2018 a query should be lodged with the Energy Fiji Limited or its representative(s).

Contractors are to ensure that the following PPE as table below in Table 1 shall be provided to ALL of its workers, and this list is also to be submitted as part of the Electrical Contractor's Bid.

Personal Protective Equipment - Condition						
Name of	Hard	Safety	Safety	Gum	Working	Reflective
Personnel	Hat	Glass	Boot	Boot	Gloves	Vest

Table 1: PPE to be provided by all workmen

### **GENERAL MATERIALS REQUIRED:**

- 1. Roller aerial clamp No1
- 2. Grade B galvanized pipe with minimum diameter of 100mm or Hardwood wooden pole treated to grade H5. The pole shall be QC stamped on the pole for verification by EFL.
- 3. Hard drawn cable 6mm<sup>2</sup> (refer Table 2)
- 4. Switch board (refer Table 3)
- 5. Entry box + 20mm adaptor
- 6. 40A single pole Main Switch
- 7. 16 amps ELCB for power point circuit(with 2 pole base and cover)
- 8. 10 amps ELCB for light circuit (with 2 pole base and cover)
- 9. Earth rod- φ 12mm
- 10. Earth clips
- 11. TPS cable 1.5mm<sup>2</sup> and 2.5mm<sup>2</sup>
- 12. 10 amps GPO + mounting block
- 13. 2 x lights and light switches
- 14. 2 x 2 feet tube lights complete fittings
- 15. Conduits, bends and/or elbow
- 16. 20mm galvanised saddle

#### 17. 4mm PV green earth wire

- 18. Self-tap screws
- 19. 7 hole neutral link & cover
- 20. J-hook
- 21. Light switch TPS cable 1.0mm
- 22. No1, No2, No3 Wiring Clips
- 23. 5" x 1/2" galvanised bolt and nut

## 24. Anti –corrosion paint

## 25. 20mm adaptor lock nut (for PVC cable entry)

Parameters	Specified Values
Insulation Type & Material	V-90 insulated
Rating	600 to 1000 volts
Cross-sectional Area	2 x 6mm <sup>2</sup>
Conductor Material	Circular, stranded, plain hard drawn copper (Class 2)
Color of Insulation	Black
Manufacturing & Testing Standards	AS/NZS 5000.1
	AS/NZS 1125
	AS/NZS 1660
	AS/NZS 3008.1.1

Table 2 Aerial mains specification

Parameters		Specified Values	
Material		WEATHERPROOF Aluminum or Galvanized Steel rated to IP23 standard	
Dimension Length		356mm (14")	
	Width	305mm (12")	
	Depth	280mm (11")	
Enclosure T	ype	Plain door enclosure	
Device Appli	ication	Distribution metering	
Enclosure M	ounting	Surface, semi flush	
Cable Entry		Knock-out bottom	
Door		Hinged to meter box	
Door Opening		Top open from Bottom to Top	
Lock Type		Pad lockable door / cover	
Board /Pane	el	The Board /Panel is to be 356mm x 305mm (14" x 12") shall be of "zelmite"	
		type.	
IP Degree of Protection		IP23	
Lid Stopper		A mechanism shall be provided to hold the lid when opened	
Paint		Painted to protect against corrosion	
Switchboard Stopper		To be made of brass	

**Table 3: Switch board specifications** 

#### **OTHER IMPORTANT NOTES & INSTRUCTIONS:**

- Mounting of the Switchboard (Meter Box): The meter box shall NOT be mounted directly on the tin / metallic walls of the houses. Finely crafted TREATED WOODEN BATTENS (preferably of size 2"x1") shall be mounted neatly first on the metal wall, and then the switchboard (meter box) screwed onto the wooden battens at the wall. SWITCHBOARDS MAY BE MOUNTED DIRECTLY ON WOODEN WALLS OF WOODEN BUILDINGS AND BUILDINGS WHERE THE WALLS ARE CONCRETE OR MASONRY.
- Any intermediate pole should be erected at maximum 40 meters apart with a pole cap where the aerial mains from the grid to the entry box is more than 40 meters.
- The minimum ground clearance to be 4.6 meters for area used by vehicles, 3 meters for areas not used by vehicles and 2 meters for cable crossing roofs and structures. A raiser may be used to achieve clearance provided it is earthed. The cross sectional area of the MEN should not be less than that of the main neutral conductor.
- The conduits are to be glued at the joints. The earth joints at the switchboard are to be soldered.
- Quality screws and nuts (such as brass screws) shall be used in the installation
- Adequate mechanical protection should be reinforced where the conductors pass through a structural member, or are fixed in position, within 50 mm from the face of the supporting member to which the lining roofing material is attached.
- Fluorescent Light Fittings Ratings of 18W & 36W, 240V, 1Ph, 50Hz with ballasts shall comply with AS 2643, and AS 3168. The fitting shall include power factor correction capacitors to be of such value as to correct the power factor of the complete fitting to not less than 0.9 Lagging. Cheap unknown brands that often fail because of inferior qualities of materials are NOT accepted in this contract. Crompton and Philips are known proven tube-light brands and are recommended for use.

# 5. PAYMENT TERMS & REQUIREMENTS

Bidders must be acceptable to and comply with EFL's payment schedule as shown in **Table 4**. Progressive Payments for each project portion undertaken will be made in the following manner upon completion of relevant tasks.

Task to be completed	Payment
Signing of contract	10%
Advance payment to Contractor to enable the timely mobilization to	
project site. This 10% payment will be paid to Contractor upon the	
receipt of the 10% <b>Performance Bond or Bank Guarantee</b> before	
contract signing.	
PHASE 1: Upon Completion of wiring of 40% of Installations	30%
house wiring includes complete internal wiring of all the houses in. i.e.	
(1) Complete installations of the 2 Switches;	
(2) the 2 Light Fittings & Tubes;	
(3) the 3 Mounting Blocks; and	
(4) The Power Points.	
For customers with existing wiring, all checks to be made to ensure all	
of the above is up to standard and good working condition	
PHASE 2: Upon Completion of wiring of 100% of Installations, and	40%
completion of house wiring of all indoor and outdoor wiring of:	
(5) Entry Boxes,	
(6) Lead-In Cables;	
(7) Switchboard,	
(8) Main Switches;	
(9) Neutral Links;	
(10) Earth Leakage Circuit Breakers; and	
(11) Complete Connection of MEN System	
(12) complete installations of fluorescent Tubes	
PHASE 3_ Tender Specifications Compliance	10%
This is paid to contractors after EFL Inspectors/ Project Technicians	
have:	
1) carried out the final inspection of the project;	
2) ascertained that the entire project has been completed and	
wired up to AS/NZS 3000:2018 standards and EFL best practice;	

3) confirmed that the brands / qualities of materials used are as	
specified in the tender document.	
4) lodgment of Permit Application Documents & Requirements for	
all three (3) customers associated with this scheme	
Retention / Defect Liability Period (6 months) following successful	10%
inspection & connection - with no defects or failure of materials due to	
workmanship or quality of work	

**Table 4: Payment Schedule** 

LPO shall be made out by EFL to the successful contractor at the beginning of each phase

Each task mentioned above shall be vetted by EFL staff (Inspector/Project Technician) upon Progress Inspection before payment is endorsed.

Once EFL endorsement is provided, bidder may then provide the invoice, and payment will be made as per EFL current payment policies and procedures (generally within 30 days of invoice)

The invoice shall be accompanied by a copy of the latest project status report from the Contractor. Payment shall not be processed unless the invoice is submitted together with the Contractor's Project Status Report.

### 6. TENDER SUBMISSION DETAILS

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

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 4.00pm (1600hrs) on Wednesday 29th June, 2022.

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

All bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act.

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.

### 7. GENERAL

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

For further information or clarification please contact our Supply Chain Office on phone (+679) 3224360 or (+679) 9992400

ALL BIDDERS MUST FILL IN THE TENDER SUBMISSION FORMS (SCHEDULE 1 TO 7) AS PART OF THEIR TENDER SUBMISSION

### 8. CLOSING DATE

Closing date of this tender will be Wednesday 29th June, 2022.

Tenders received **after** <u>4:00pm (Fiji Time)</u> on the closing date of **Wednesday 29**<sup>th</sup> **June**, **2022** will **not be considered**.

### 9. TENDER EVALUATION CRITERIA

All bids will go through a normal tender evaluation process as per EFL's Tender Policy and Procedures.

The successful bidder will be advised of the outcome after completion of the Tender evaluation process, through which they may enter into a short-term agreement during award to delivery process.

The evaluation of the tender submissions will be weighted as per Table 5.

No.	Components	Weighting (%)
1	Price	40 %
2	Clarity of Bid & Tender Submission Forms & Schedules	15 %
3	Timeline for Completion	15 %
4	Quality of Products Used for Wiring	30%

Table 5: Tender Evaluation Criteria

# APPENDIX 1: LIST OF CUSTOMERS TO BE WIRED (NA 18-18)

- 1. Edwin Chandra
- 2. Roneel Ram

<b>Contractor Name/Stam</b>	p

# SCHEDULE 1: TENDER FORM (EFL MR 148/2022)

The following information has to be filled by the bidder and submitted with Tender Documents:

1.	Company / Contractor's Name:					
2.	Contracting License Number:					
3.	Director/Owner(s):					
4.	Postal Address:					
5.	Email Address:					
6.	Phone Number:					
7.	Fax Number:					
8.	Office Location:					
9.	Facsimile & Skype:					
10.	Web Address:					
11.	TIN Number:					
12. Company Registration Number:						
13. FNPF Employer Registration Number :						
14. Number of Branches & locations:						
15. Years of Experience in House Wiring:						
I hereby, declare that all the above information is correct.						
Signat	ure:					
Name:						
Positio	n:					
Date:	<del></del>					

# SCHEDULE 2: LIST OF PERSONNEL ENGAGED IN HOUSE-WIRING

Employee Full Name	Position	Wireman's Licence Number	TIN Number	FNPF Number

Contractor Name/Stamp						

## **SCHEDULE 3: COMPLIANCE CHECKLIST**

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

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

# **SCHEDULE 4: SCHEDULE OF PRICES**

Contractor Name/Stamp

Please enter unit rates and lump-sum prices in table below.

Recommended brands are highlighted in each description

The total contract sain for or the works shall be. 5	The total Contract :	sum for of the	works shall be:	\$ VI
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### Costing

<u>Note:</u> For customers with existing power supply, provide pricing for diversion of service mains together with checking and ensuring electrical wiring compliance under **Part 1 labour**.

	Part 1: Price Sch	edule for New Power Su	vlaa	
	Customer Name	Labour	Materials	Total Cost
	Edwin Chandra			
1				
	Roneel Ram			
2				
	SUBTOTAL (F	PART 1)		
	Part 2	2: Other Costs		
	Mobilsation Costs to Site			
	Demobilisation Costs from Site			
	SUBTOTAL (I	PART 2)		
	GRAND TOTAL (SUM OI	Part 1 & 2 above)		

## **SCHEDULE 5: LIST OF MATERIALS**

Contractor Name/Stamp	

### **Materials**

The table below consists of materials required to be installed at the sites. Ensure the models coincides with applicable standards.

Item No.	Description	Quantity	Brand
1	Supply & Installation of Light Fittings: (Philips, Crompton brand)		
2	Supply & Installation of Light Tubes: (Philips Crompton brands)		
3	Supply & Installation of Light Switches: (PDL/CLIPSAL/HPM/ LEGRAND/ SCHNEIDER)		
4	Supply & Installation of General Purpose Outlets: (PDL/CLIPSAL/HPM/LEGRAND/SCHNEIDER)		
5	Supply & Installation of ELCB; MERLIN  GERIN/SCHNEIDER/CLIPSAL/PDL/HPM/ LEGRAND/NHP)		
6	Supply & Installation of Main Entry Box (PDL/CLIPSAL/HPM/ LEGRAND/ SCHNEIDER)		
7	Supply & Installation of Main Switch (PDL/CLIPSAL/HPM/ LEGRAND/ SCHNEIDER/NHP)		
8	Supply & Installation of Neutral Link (PDL/CLIPSAL/HPM/ LEGRAND/ SCHNEIDER)		
9	Brass Screws, Nuts + all other Accessories		
10.	Cables and conductors		

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

Note: Bidders are to provide the Data Sheets of the materials that has been quoted.

C		Н	T.	T	١	T	ľ	F	6:	T	<b>A</b> 7	n	Ī	)	K		3	•	Н		T	1	n	T	L	7	Q,	7	וי	ī	/	F	T	T	N	E	C
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Contractor Name/Stamp
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This schedule sets out the timelines for each phase which corresponds to the payment schedule

	EFL Guideline	Timeline from Contractor (weeks/days)
Mobilization and commencement of Work	Within 7 days of Issue of	(**************************************
Completion of Phase 1 (internal wiring)  1. Complete installations of the 2 Switches;  2. the 2 Light Fittings & Tubes;	Within 2 weeks of issue of LPO	
<ul><li>3. the 3 Mounting Blocks; and</li><li>4. The Power Points</li></ul>		
<ul> <li>Completion of Phase 2 (outdoor wiring)</li> <li>5. Entry Boxes,</li> <li>6. Lead-In Cables;</li> <li>7. Switchboard,</li> <li>8. Main Switches;</li> <li>9. Neutral Links;</li> <li>10. Earth Leakage Circuit Breakers; and</li> <li>11. Complete Connection of MEN System</li> <li>12. complete installations of fluorescent Tubes</li> <li>13. Diversion of service mains for existing houses</li> </ul>	Within 3 weeks of issue of LPO	
TOTAL TIME TO COMPLETE HOUSE WIRIS CUSTOMERS	NG FOR ALL 3	

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Contractor Name/Stamp

All bidders must provide a Safety Plan on how they will manage associated risks during the House Wiring Project

### **TENDER CHECKLIST**

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

Ter	nder Number
Ter	nder 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: <a href="https://www.tenderlink.com/efl">https://www.tenderlink.com/efl</a>

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

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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.

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