

ENERGY FIJI LTD



Tender No. : MR 58/2024

THE SUPPLY OF 10 X 3.5MVA 11/0.415kV, YNd11, 3Phase
TRANSFORMERS FOR GENERATION SBA

Table of Content

1	<u>INSTRUCTIONS TO BIDDERS</u>	3
1.1	GENERAL	3
1.2	BID DOCUMENT	5
1.3	PREPARATION OF BIDS	5
1.4	SUBMISSION OF BIDS	6
2	<u>GENERAL CONDITIONS OF CONTRACT</u>	5
2.1	STANDARDS	7
2.2	PERFORMANCE BOND	7
2.3	PROGRAMME TO BE FURNISHED	7
2.4	INSPECTION AND TESTS	8
2.5	INSURANCE	8
2.6	PAYMENT	8
2.7	TERMINATION FOR DEFAULT	8
2.8	FORCE MAJEURE	8
2.9	EXPLANATIONS	9
2.10	ARBITRATION	9
2.11	WARRANTY	10
2.12	GENERAL CONDITIONS'	10
3	<u>SPECIFICATION</u>	11
3.1	INFORMATION TO TENDERS	11
3.2	SPECIFICATION TECHNICAL	14
3.3	DELIVERABLES	15
3.3.1	SCHEDULE 1 - TECHNICAL PARTICULARS	17
3.3.2	SCHEDULE 2 - TRANSFORMER DETAILS	18
3.3.4	SCHEDULE 4 – PRICE	20
4	<u>APPENDIX</u>	

1 INSTRUCTIONS TO BIDDERS

1.1 GENERAL

1.1.1 SCOPE OF BID

The Energy Fiji Limited (hereinafter referred to as "the Employer"), wishes to receive bids for Supply of;

- a) 8 x 3.5MVA, 33/0.415kV, YNd11 and 2 x 3.5MVA, 11/0.415kV, YNd11 ground mounted step up transformers with enclosed terminal box on both LV and HV sides. Also the HV angle termination kit and boot to be supplied.

1.1.2 ELIGIBLE BIDDERS

1.1.2.1 This Invitation to Bid is open to bidders who have sound financial background and have previous experience in handling such turnkey projects.

1.1.2.2 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer as the Employer shall reasonably request.

1.1.2.3 Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent practices.

1.1.3 QUALIFICATION OF THE BIDDER

1.1.3.1 To be qualified for award of Contract, bidders shall:

1.1.3.2 Submit a written power of attorney authorizing the signatory of the bid to commit the bidder; and

1.1.3.3 Submit proposals regarding work methods, scheduling and resourcing which shall be, provided in sufficient detail to confirm the bidders' capability to complete the works in accordance with the specifications and the time for completion.

1.1.3.4 Bidders shall also submit proposals of work methods and schedule in sufficient detail to demonstrate the adequacy of the bidders' proposals to meet the Employer's Requirements and the completion time referred to in Sub-Clause 1.1.1 above.

1.1.4 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.

1.1.5 SITE VISIT

Site Visit is not required.

1.1.6 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 4.00pm (1600hrs) on Wednesday 21st February, 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.

1.2 BID DOCUMENT

1.2.1 CLARIFICATION OF BIDDING DOCUMENT

A prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or email at the Employer's address indicated in the Invitation for Bids. The Employer will respond to any request for clarification, which it receives earlier than 5 days prior to the deadline for submission of bids.

1.3 PREPARATION OF BIDS

1.3.1 DOCUMENTS COMPRISING THE BID

1.3.1.1 The bid submitted by the bidder shall comprise two submissions simultaneously, one containing only the technical proposal and the other the price proposal.

1.3.1.2 The technical proposal shall contain the following:

- (i) Bid Form for Technical Proposal and Appendix to Technical Proposal
- (ii) Form of Bid Security;
- (iii) Power of Attorney;
- (iv) Information on Qualification;
- (v) Confirmation of Eligibility;
- (vi) Schedule of Major Items of Equipment
- (vii) Schedule of Technical Particulars & Guarantees
- (viii) Schedule of Times for Delivery & Completion and Contract completion times
- (ix) Schedule of Subcontractors Statement of Experience
- (x) Schedule of Contractors Health & Safety Plan
- (xi) Schedule of Other Documents and Drawings to be submitted with the bid
- (xii) Any other materials required to be completed and submitted by bidders in accordance with these Instructions to Bidders.

1.3.1.3 The Financial proposal shall contain the following:

- (i) Bid Form for Price Proposal and Appendix to Price Proposal;
- (ii) Schedules of Prices:
 - I. Design, Drawings and Documentation
 - II. Grand Summary; and
 - III. Recommended Spare Par
 - IV. Any other materials required to be completed and submitted by bidders in accordance with these Instructions to Bidders.

1.3.2 BID PRICE

1.3.2.1 Unless specified otherwise in Employer's Requirements, Bidders shall quote for the entire facilities on a "single responsibility" basis such that the total bid price covers all the Contractor's obligations mentioned in or to be reasonably inferred from the bidding documents in respect of the design, manufacture, including procurement and subcontracting (if any) and delivery of the facilities. This includes all requirements under the Contractor's responsibilities for testing the facilities and, where so required by the bidding documents, the acquisition of all permits, approvals and licenses, etc.

1.3.2.2 Bidders shall give a breakdown of the prices in the manner and detail called for in the Schedules of Prices.

1.3.2.3 Prices quoted by the bidder shall be on a fixed lump sum basis and shall not be adjusted for changes in the cost of material or other matters

1.3.3 BID CURRENCIES

All prices shall be quoted CIF Lautoka Port in Fijian currency if possible or in USD, AUD, NZD or EURO

1.3.4 BID VALIDITY

Bids shall remain valid for a period of 90 days after the date of opening of technical proposals.

1.4 SUBMISSION OF BIDS

1.4.1 SEALING AND MARKING OF BIDS

Tender can be submitted via electronic tender box or sealed hardcopies in tender box.

1.4.2 DEADLINE FOR SUBMISSION OF BIDS

Bids must be received by the Employer at the address specified in the advertisement.

1.4.3 LATE BIDS

Any bid received by the Employer after the deadline for submission of bids prescribed in Clause 16.1 will be rejected and returned unopened to the bidder.

2 GENERAL CONDITIONS OF CONTRACT

2.1 STANDARDS

The Goods supplied under this Contract shall conform to international ISO / DIN standards for mechanical and IEC / ISO and HD standards for electrical work.

2.2 PERFORMANCE BOND

- 2.2.1** Within 21 days after the Contractor's receipt of notification of award of the contract or upon contract signing and down payment, the Contractor shall furnish a performance bond to the Employer in the amount of 10% of the tendered price.
- 2.2.2** The performance bond shall be denominated in the currency of the Contract or in another freely convertible currency acceptable to the Employer, and shall be in one of the following forms:
- 2.2.3** A performance bond issued by a surety acceptable to the Employer and in the form provided in the Tender Documents.
- 2.2.4** A Bank Guarantee issued by a bank located in the Employer's country or abroad acceptable to the Employer, and in the form provided in the Tender Documents.
- 2.2.5** A cashier's cheque, certified cheque, irrevocable letter of Credit or Cash.
- 2.2.6** The Performance Bond will be discharged by the Employer not later than 90 days following the date of completion of the Contractor's performance obligations, including any warranty obligations under the Contract.

2.3 PROGRAMME TO BE FURNISHED

Within 20 days of the acceptance of this tender the Contractor shall submit to the Employer, for approval, a programme showing the order in which he proposes to carry out the works, including design, manufacture and delivery.

2.4 INSPECTION AND TESTS

The Employer's Engineer or his representative shall have the right to inspect and/or to witness test the Goods at the factory or place of manufacture, for their conformity to the Contract Specifications. The Employer shall notify the Contractor in writing of the identity of its Engineer(s) or representative(s) retained for these purposes. The contractor shall provide the Employer with a detailed program for the inspections and/or witness tests and notice of at least 7 days of notice when the materials, equipment, system is ready for inspection & testing. Nothing in this clause shall in any way release the Contractor from any warranty or other obligations under this Contract in delivering a fully functional plant as specified elsewhere in this document or the contractors' design and specifications.

2.5 INSURANCE

The contractor shall provide for 100% insurance cover for the equipment supply and transport, including third-party liabilities and Contractors All Risk (CAR) insurance for the equipment scope and consequential damage insurance to existing facilities due to contractor activity/negligence.

2.6 PAYMENT

Payment shall be on a percentage of completion basis up to 90% of contract sum till initial commissioning date, 5% retention till successful completion of site tests and final 5% retention after warranty period expires.

The Contractor's request for payment shall be made to the Employer in writing, accompanied by invoice(s) describing as appropriate, the Goods delivered and services performed together with shipping and other documents as may be required by the Employer. Payments shall be made promptly within ten (10) days, but no later than thirty (30) days of submission of an invoice/claim made by the Contractor, upon approval of the invoice.

2.7 TERMINATION FOR DEFAULT

2.7.1 The Employer may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Contractor, terminate this Contract on the following grounds:

2.7.1.1 If the Contractor fails to deliver any or all of the Goods within the time period(s) specified in the Contract, or any extension thereof granted by the Employer.

2.7.2 Fails to perform any other obligation(s) under the Contract.

2.8 FORCE MAJEURE

In this Clause Force Majeure means any event or circumstance (whether arising from natural causes, human agency or otherwise) beyond the control of the Contractor including (in so far as beyond such control but without prejudice to the generality of the foregoing expression) strikes, lockouts or other labour disputes, riot, civil commotion, aircraft fire, flood, drought loss, delay at sea, breakdown or war.

2.9 EXPLANATIONS

If the Tender needs any clarifications, the inquiry should be made in writing to:

Mr. Jitendra Reddy
The Manager
Procurement, Inventory & Supply
Chain
Energy Fiji Limited
Private Mail Bag,
Suva –FIJI

Telephone: (+679) 3311 133

Fax: (+679) 3311882

E-mail: JReddy@efl.com.fj

All explanations to the clarifications shall be answered in writing.

2.10 ARBITRATION

All questions or differences what so ever which may at any time hereafter arise between the parties hereto or their respective representatives attached to this agreement or the subject matter or construction hereof or the rights and duties of the parties hereunder, shall be referred to a single arbitrator if the parties agree or otherwise, to four arbitrators, one to be appointed by each party and in either case, in accordance with and subject to the provisions of the Arbitration Act Cap. 38 of the Laws of Fiji or of any statutory modification or re-enactment thereof for the time being in force. Such person to be an arbitrator will be nominated by the Fiji Institute of Engineers.

2.11 WARRANTY

- 2.11.1** The Contractor warrants that all Goods supplied under this Contract shall have no defect arising from material used workmanship or from any act or omission of the Contractor, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 2.11.2** The Contractor shall clearly specify the Warranty period of the installed and commissioned Goods supplied under this contract and such period shall be referred to as the Warranty and shall not be any period less than 24 months or 2,000 machine operating hours, whichever comes first from the date of commissioning. The contractor shall ensure that the equipment supplied under this Contract shall operate within specified guaranteed performance levels during the warranty period.
- 2.11.3** The Employer shall promptly notify the Contractor in writing of any claims arising under this Warranty. Upon receipt of such notice, the Contractor shall, with all reasonable speed, repair or replace the defective Goods or parts thereof, including transport, duty, and local Fiji charges, without any cost to the Employer.

2.12 GENERAL CONDITIONS'

General conditions of this contract shall be governed by the Built & Turnkey of the Federation Internationale Des Ingenieurs Conseil (FIDIC) first edition 1995. (Copies can be obtained from FIDIC PO Box 86 CH 1000 Lausanne, 12 Switzerland. Fax 41-21-653 5432)

SPECIFICATION

3.1 INFORMATION TO TENDERS

3.1.1 SCOPE OF SUPPLY

The scope is for Supply of:

- a) 8 x 3.5MVA, 33/0.415kV, YNd11 and 2 x 3.5MVA, 11/0.415kV, YNd11 ground mounted step up transformers with enclosed terminal box on both LV and HV sides. ***Also the HV angle termination kit and bushing boot to be supplied.***

The contract also includes:

- (i) Three Hard copies and one soft copy of Operating, Servicing and Maintenance Instructions and Spare Parts Manuals.
- (ii) Any necessary erection materials including a complete set of special tools and equipment necessary to erect, operate, service and maintain the transformers.
- (iii) A list and price of spare parts for operating and maintaining the Plant to include but not limited to the following:
 - Spares parts for the transformers
 - General and special tools
 - Installation and Service Manuals
- (iv) Detailed design calculations, specifications and drawings used in the contract.

3.1.2 INFORMATION WITH TENDER

Tenders must fill in all Schedules and give all particulars pertaining to the Transformer Plant offered.

In particular, they shall supply the following in their tender:

- a) Drawings showing all dimensions of the complete Transformer Plant.
- b) Drawings or Schedules showing the shipping dimensions and weights.
- c) One copy in the English Language of the Design Codes to which the tenderer elects to design the transformers.
- d) A list of recommended spares

3.1.3 DRAWING AND INFORMATION TO BE SUPPLIED BY BIDDER

3.1.3.1 The following must be submitted with the tender;

General arrangements for the plant, giving dimensions, weights and basic specifications of transformer.

Illustrations and printed matter showing constructional details and details of instrumentation, protection and accessories.

3.1.3.2 The following drawings are to be submitted with the contract, in printed and electronic/AutoCAD formats:

- (i) Certified general arrangement drawings showing all fittings and accessories provided and including dimensions and weights and the specifications for the transformers and accessories.
- (ii) Combined Instrumentation with operational parameters
- (iii) Certification of all the final design calculations, drawings and evidence of compliance to such design parameters.

3.1.3.3 Submission of Drawing

All drawings submitted pursuant to this clause, shall form part of the contract, after approval by the Engineer. The sequence of submission of all drawings shall be such that all information is available for checking each drawing when it is received. Notation on drawings shall be in the English language.

3.1.4 DESIGN AND STANDARDISATION

The equipment specification shall covers the design, manufacturing, testing, supply, delivery and performance requirements of the three phase outdoor type transformers. The equipment shall comply with the latest international standards listed below as a minimum.

AS Australia Standard:

AS 60076 Power transformer

AS 2312 : Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings

AS 2374.1 : Minimum Energy Performance Standard (MEPS) requirements for distribution transformers.

IEC International Electrotechnical Commission

IEC 60071 : Insulation co-ordination

IEC 60076 : Power transformer

IEC 60137 : Bushing for alternating voltages above 1,000V

IEC 60156 : Methods for the determination of the electric strength of insulating oils.

IEC 60296 : Specification for unused mineral insulating oils for transformer and switchgear.

IEC 60354 : Loading guide for oil-immersed power transformer

IEC 60437 : Radio interference test on high-voltage insulators

IEC 60551 : Determination of transformer and reactor sound levels

IEC 60616 : Terminal and tapping marking for power transformers

IEC 50722 : Guide to the lightning and switching impulse testing of power transformers and reactors.

ISO International Organization for Standardization

ISO 1459 : Metallic coating – Protection against Corrosion by Hot Dip Galvanizing

ISO 1460 : Metallic coating, Hot dip galvanized coating on ferrous materials.

ISO 2178 : Non-magnetic coating on magnetic substrates, Measurements of coating thickness, Magnetic method

ISO 9000 : Quality management and quality assurance standards.

ASTM American Society for Testing and Materials

D 202 : Methods of sampling and testing unheated paper used for electrical insulation

Where any provision of this specification differs from those of the standards listed above, the provision of this specification shall apply. In case of conflict, the order of precedence shall be this specification below:

AS standards

IEC standards

ISO standards

Other standards

Type tests results are to be submitted in the Tender Bids.

3.1.5 TOOLS AND INSTRUMENTS

The Contractor shall supply all special tools and instruments which may be necessary to carry out the installation, commissioning and operation maintenance,

Exceptions and items required but not supplied must be highlighted along with the current market rate for each of such items. Unless the Employer has granted any relief or exemption, the contractor is expected to include all such tools and instruments in the bid price. List of such tools and instruments should be provided with the Tender with their unit prices.

3.1.6 PROVISION FOR HANDLING THE PLANT

All heavy parts of the plant supplied under the contract shall have provisions for lifting, slinging and handling during delivery, erection, maintenance and overhauls. A legible name plate indicating the safe limits shall be prominently displayed where possible.

3.1.7 PACKING

All material and equipment are to be packed to be transported to the site so that they are protected against climatic conditions and handling to which they may be subjected to in transit and storage at the site.

Spare parts or components supplied shall be individually and suitably preserved, packed and sealed to withstand tropical weather conditions. The packing shall be sufficient to withstand, rough precipitation during transit and open or prolonged storage.

Preservation chemicals/agents may be employed to ensure that goods delivered are received in good shape and that they can be stored for long durations without fear of corrosion or contamination.

All markings within the inside and on the outside of casings or packaging are to be either of a water proof ink, material or protected by Shellac or varnish to protect obliteration in transit, handling and storage.

3.1.8 INSURANCE

The Tenderer shall deliver the complete equipment supply, Delivered Duty Unpaid to the transfer point identified in the Tender specification.
handling during transit and exposure to extreme temperatures, salt, high humidity and

3.2 SPECIFICATION TECHNICAL

3.2.1 SCOPE OF WORK

The Bidder is required to Supply the following transformers;

- A) 8 x 3.5MVA, 33/0.415kV, YNd11 and 2 x 3.5MVA, 11/0.415kV, YNd11 3 Phase ground mounted step up transformers with enclosed terminal box on both LV and HV sides. ***Also, the HV angle termination kit and boot to be supplied.***

3.2.2 DESIGN REQUIREMENTS

Coils are to be manufactured with layer windings with diamond dotted thermosetting resin coated presspaper interlayer insulation and pressboard interwinding insulation. The coils are to be rectangular in cross-section to match the core shape and are sized and cured to make a solid homogeneous finished coil. Both the HV and LV windings on most transformers (100kVA and above use sheet Aluminium) are wound with PEI Grade 2 enamel covered Aluminium winding wire.

All cores are to be distributed gap wound type cores, with a rectangular shaped cross-section enabling a single slit width of raw material. The core raw material is Grain Oriented Silicon Electrical steel, chosen for Low Loss qualities and high Quality.

3.2.3 SURFACE TREATMENT SYSTEM:

Mild Steel are to be used for the construction material of these transformer tanks. To further enhance the surface protection system a 100%, hot zinc spray primer will be used, along with the following Anti-Graffiti system to AS/NZS 2312:2002.

Primer Zinc Coating	Hot Zinc Spray - 75 microns:
Primer	High Build Epoxy - 200 microns:
Finish Coating	Polyurethane Gloss - 50 microns:
Finish Colour	G15 Rain Forest Green

3.2.4 PERFORMANCE:

The transformers offered are to meet the guaranteed (where applicable) performance values in accordance with the latest edition of **AS2374**. All transformers are to be fully routine tested in accordance with the latest edition of **AS2374** and each unit is supplied with a test certificate.

Type tests results are to be submitted in the Tender Bids.

3.2.5 TRANSFORMER DETAILS

For 3.5MVA 3Phase 11 – 6.315/0.415kV YNd11

- Transformer Voltage ratios: 11000-6351/415volts
- Off circuit tap changer, with tapings of +3 / -1 in 2.5% step
- Vector group – YNd11.
- Oil filled and hermetically sealed transformer tank with dry air for long life.
- HV Connections – 11kV DIN Bolted 630A Bushings*
- Stainless steel transformer-rating plate.
- 25 NB Drain & Filler Valves
- Oil sight Glass with 15 degree C mark
- HV and LV Cable boxes welded to the tank, with aluminium gland plates
- Pressure Relief Device with aux contacts
- Oil Temperature Indicator with aux contacts
- Winding Temp Indicator with aux contacts
- Auxiliary wiring termination stainless steel weather proof box
- Zinc Spray with Underseal Paint System

For 3.5MVA 3Phase 33 – 6.315/0.415kV YNd11

- Transformer Voltage ratios: 33000-6351/415volts
- Off circuit tap changer, with tapings of +3 / -1 in 2.5% step
- Vector group – YNd11.
- Oil filled and hermetically sealed transformer tank with dry air for long life.
- HV Connections – 33kV DIN Bolted 630A Bushings*
- Stainless steel transformer-rating plate.
- 25 NB Drain & Filler Valves
- Oil sight Glass with 15 degree C mark
- HV and LV Cable boxes welded to the tank, with aluminium gland plates
- Pressure Relief Device with aux contacts
- Oil Temperature Indicator with aux contacts
- Winding Temp Indicator with aux contacts
- Auxiliary wiring termination stainless steel weather proof box
- Zinc Spray with Underseal Paint System

3.2.6 OIL TYPE:

All Transformers are filled with Standard Mineral oil to BS148 (1998) or AS1767.

3.2.7 INTERLAYER INSULATION:

Diamond dotted epoxy coated calendared press paper to Grade 3.

3.2.8 INTERWINDING INSULATION:

Calendered transformer pressboard to Grade 3

3.2.9 CONDUCTORS HV AND LV

6.6kV, 11kV, 22kV, 33kV, winding: Polyesterimide Grade 2 enamel covered winding wire. 240V, 250V, 415V, 433V, 690V winding Sheet aluminium, Electrical grade 1350 or better.

3.2.10 TEMPERATURE RISES:

Maximum average winding temperature rise:	65°C
Maximum top oil temperature rise:	60°C
Maximum Ambient Temperature:	40°C

3.2.11 REFERENCE CONDITIONS

The following environmental conditions are applicable to this site.

- (i) Environment Type – Tropical Climate
- (ii) Elevation above mean sea level (800 meters)
- (ii) Ambient air temperature
 - Design Temperature 45 °C
 - Minimum 15 °C
- (iii) Relative Humidity
 - Maximum relative humidity 95%
 - Minimum relative humidity 70%
- (iv) Seismic Condition
 - All equipment shall be capable of withstanding an acceleration of 3.3m/sec² in any direction without sustaining any damage.

3.2.12 TAP CHANGER

The tap changer shall be OFF Load Type and lockable with tapping of +3/-1 in 2.5% step

3.3 DELIVERABLES

To be completed and returned with tender document)

3.3.1 Schedule 1 - Bidders Particulars

1. Full Company Name: _____

(i) Director/Owner(s): _____

(ii) Postal Address _____

(iii) Phone Contact _____

(iv) Email address _____

(v) Office Location: _____

(vi) TIN Number _____

(Attach copy of the VAT Registration Certificate – Local Bidders Only)

3.3.2 Transformer Details to be supplied by Bidders**TRANSFORMER DATA (Separate for each Transformer)**

Symbol	DATA DESCRIPTION	UNITS	VALUES
	Name of manufacturer		
	Transformer Make		
	Transformer Serial Number		
	Year of Manufacture		
	HV Winding Voltage (nominal)	kV	
	LV Winding Voltage (nominal)	kV	
	Frequency	Hz	
	Vector Group		
	Phase Shift Angle	Degrees	
	Rating 1	MVA	
	Rating 2	MVA	
	Rating 3	MVA	
	No of Phases	Number	
	Positive Sequence Impedance (Per unit on transformer rating)	Per unit	
	Positive Sequence X to R ratio	Ratio	
	Zero Sequence Impedance (Per unit on transformer rating)	Per unit	
	Zero Sequence X to R ratio	Ratio	
	Primary Grounding Resistance	Ohms	
	Secondary grounding resistance	Ohms	
	Primary Grounding Reactance	Ohms	
	Secondary Grounding Reactance	Ohms	
	% Imp Volts	%	
	Expected Inrush Current if Energized from HV side	Amps	
	Expected duration of Inrush Current	Amps	
Insulation Class			
	Insulation Level – Winding 1		
	Insulation Level – Winding 2		
	Insulation Level – Winding 3		
	Minimum Tap Number	Tap Position	
	Minimum Tap Voltage	kV	
	Maximum Tap Number	Tap Position	
	Maximum Tap Voltage	kV	
	Nominal tap position	Tap position	
	No load loss	kW	
	Copper loss	kW	
	Primary winding configuration	Text	
	Secondary winding configuration	Text	
	Phase displacement	Degrees	
	Thermal Curve	Diagram	
	Magnetization curve (in per unit on the transformer rating)	Diagram	
	Tap Changer control block diagram	Diagram	
	On Load or Off Load Tap Changer		

Symbol	DATA DESCRIPTION	UNITS	VALUES
Documentation			
	Electrical, Mechanical and Seismic design reports	Report	
	Factory Acceptance Test Reports	Report/Manuals	
	Transformer Electrical and Mechanical Drawings	Drawing	
	Transformer Nameplate Drawing	Drawing/Text	
Symbol	Data Description	Units	Value
	Details of various mechanical protection devices showing principles of operation, trigger levels, recommended level settings from manufacturer	Text and Diagram	
	Mechanical Protection Device Manuals	Manual	

3.3.3 SCHEDULE 7 - PRICE

Description		Unit Cost \$ Amount Currency: ____	Total Cost \$ Amount Currency
1	8 x 3.5MVA 11/0.415kV YNd11 Transformer		
2	2 x 3.5MVA 33/0.415kV YNd11 Transformer		
3	Freight, transportation cost, CIF Lautoka Port		
4	Three sets of Hard & One Softcopy of Spare parts manuals, Operation & Maintenance manuals, drawings, design & technical information required for site installation and other documentation as per tender		
TOTAL COST – CIF Lautoka Port			
5	Warranty Duration		

Notes:

* Please specify currency (FJD, USD, AUD,

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 4.00pm (1600hrs) on Wednesday 21st February, 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.