

ENERGY FIJI LIMITED

TENDER No. MR 76/2025

Supply of One (1) Unit of 33kV Dead Tank Outdoor Circuit Breaker for EFL's Korolevu Substation and Two (2) Spare units



INVITATION TO TENDER

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Supply of One (1) Unit of 33kV Dead Tank Outdoor Circuit Breaker for EFL's Korolevu Substation and Two (2) Spare units.

The Energy Fiji Limited invites you to tender for the Design, Manufacture, Test and Supply of Three (3) Units of 33kV Dead Tank Outdoor Circuit Breaker for following sites:

Zone Substation	Number of Circuit Breaker Required
Korolevu	1 unit
Spares for Central and Western division	2 units

All tenders for the contract shall be submitted on the appropriate tender form provided and shall include the complete price schedule and technical schedule. The tender shall be on the basis of a lump sum contract based on firm prices. The price should be **CFR** to, Suva Port, Fiji.

The deadline for submission of tenders shall be 1600hr on Wednesday 5th March, 2025.



Energy Fiji Limited

Contract for Supply of One (1) Unit of 33kV Dead Tank Outdoor Circuit Breaker for EFL's Korolevu Substation and Two (2) Spare units.

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Energy Fiji Limited

Contract for the Supply of One (1) Unit of 33kV Dead Tank Outdoor Circuit Breaker for EFL's Korolevu Substation and Two (2) Spare units..

SECTION 1 INSTRUCTIONS TO TENDERERS

1. General

The Energy Fiji Limited (hereinafter called the Authority) is a statutory body vested with the responsibility for the provision of electricity supply throughout Fiji. EFL plans to procure three (3) new 33kV outdoor dead tank vacuum type circuit breaker.

2. Type of Tender

The Tenderer shall submit a fixed price tender. This requirement shall apply equally to the conforming tender as well as any alternative tender.

3. Compliance with Instructions

The Tender shall be submitted in accordance with these Instructions and the letter of invitation to tender.

4. Notification of Intention to Tender

The prospective Tenderer shall, not less than 28 days prior to the date set for opening of Tenders, notify company whether it is his intention to submit a tender.

5. Addenda to Tender

Where the company finds it necessary to make amendments to or clarify the requirements of the tender documents during the period of tendering an Addendum will be forwarded. In the Appendix to Tender shall state the reference number and description of the aforesaid Addenda which has been considered during preparation of the Tender.

6. Compliance with Specification

The tender shall be based on the equipment and work specified and shall be in accordance with the Technical Specification. It should be noted that unless departures from specifications are detailed in Schedule I of the Technical Specification, the tender would be taken as conforming to the Specification in its entirety. The Tenderer shall tender for the whole of the Works included in the Specification.



7. Delivery Periods

The Tenderer shall submit his tender on the basis that will permit the Works to be completed under normal circumstances by the completion dates stated in Schedule E of the Technical Specification.

8. Currency and Currency Equivalent

The tender shall be in the currency of the Tenderer's home country. For Tender comparison purposes the currency or currencies in which the tender is offered will be valued in terms of Fijian dollars at the exchange rate quoted for the sale of the foreign currency for Fijian dollars quoted by the ANZ Bank of Fiji on the day the tenders are opened.

9. Signature of Tenderer

A tender submitted by a Partnership shall be signed by one of the members of the Partnership and shall be accompanied by a certified authorization of all the partners authorizing the individual partner to sign on behalf of the Partnership. A tender submitted by a Corporation to the Contract and shall be accompanied by a certified resolution of the Board of Directors authorizing the individual to sign on behalf of the Corporation.

10. Information forming part of the Tender

The Tenderer shall supply with each set of the tender copies of the technical, price and information schedules of the Tender Documents duly completed with all missing information and shall supply requisite drawings. A copy of the Tenderer's covering letter (if any) shall be submitted with each tender and each tender shall be accompanied by a full set of supporting matter which the Tenderer wishes to have considered by the company as supporting information for his tender.

11. Conforming and Alternative Tenders

No Alternative bids shall be acceptable.

12. Non Conforming Tenders

A tender which does not comply with the Conditions of Tendering or in which the technical price information schedules requiring information to be inserted by the Tenderer have not been completed in all respects may be considered informal will be rejected for these reasons.

13. Validity Period of Tenders

Tenders shall remain valid for acceptance within **180 days** from the date of opening of tenders and a Tenderer shall not withdraw or amend his tender prior



to the expiration of the Validity Period.

In exceptional circumstances prior to expiry of the original tender validity period, the company may request the Tenderer for an extension in the period of validity. The request and the response thereto shall be in writing. A tenderer agreeing to the request will not be permitted to amend his tender price.

14. Extension of Closing Time for Tenders

The right is reserved to amend the date set for the opening of tenders to any late date. If it is decided to extend the time for submission of tenders all prospective Tenderers to whom tender documents have been issued will be promptly notified.

15. Lodgement of Tender

The tender bids SHALL be submitted electronically at the following location https://www.tenderlink.com/efl.

Register your interest and submit a soft copy response by viewing 'Current Tenders' at: https://www.tenderlink.com/efl.

The bid shall be typed and shall be signed by a person or persons duly authorized to sign on behalf of the bidder, as the case may be. All pages of the bid where entries or amendments have been made shall be initialled by the person or persons signing the bid.

The bid shall contain no alterations, omissions or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the bidder, in which case such corrections shall be initialled by the persons signing the bid.

The bidder shall submit original PDF & AutoCAD copies of the bids & associated drawings in the bid submission link.

16. 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, 5th March, 2025.

The Employer may, at its discretion, extend the deadline for submission of bids by issuing an addendum in accordance with Clause 11, 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.



17. Tender Evaluation

After a preliminary analysis to ascertain whether or not the tender is in accordance with the requirements of the tender documents each tender will be considered with particular reference to its price, completion date, design capability, evidence of past performance on contracts of a similar nature, supply of reliable quality equipment's and all other matters affecting the Tenderers ability to complete the Contract in accordance with the company's requirements.

18. Adjustment of Errors

The company reserves the right to adjust arithmetical or other errors in the Tender. Any adjustments made by the company to a Tender will be stated to the Tenderer prior to acceptance of the Tender. In the event of discrepancies appearing between words and figures in the Tender, the words shall prevail.

19. Acceptance of Tenders

The company shall not be bound to accept the lowest or any tender not to assign any reason for the rejection of a tender and reserves the right to waive any informality in a tender. No tender shall be deemed to have been accepted unless such acceptance is notified to the Tenderer by notice in writing either by handing such notice to the representative of the successful Tenderer or by sending such notice by e-mail, facsimile or airmail post. Such notice shall include any essential identifying details of the tender. The date of acceptance of Tender shall be the date on which the above mentioned notice is given or posted or e-mailed.

20. Language of Tender

All Tenders together with any documents submitted by the Tenderer as part of any Tender shall be written in the English language.



SECTION 2A

GENERAL TECHNICAL SPECIFICATIONS

Contract for the Supply of One (1) Unit of 33kV Dead Tank Outdoor Circuit Breaker for EFL's Korolevu Substation and Two (2) Spare units.

1. SCOPE OF CONTRACT

The scope of this contract is for supply of

- i. Three (3) Complete Outdoor 33kV Dead Tank Circuit Breaker
- ii. Current transformers (CT) with each unit
- iii. Associated structures for 33kV Circuit Breaker for each unit.

The Circuit Breaker is required for the following sites:

Zone Substation	Number of Circuit Breaker Required	Application	Label
Korolevu Substation	1 unit	Transformer Circuit Breaker	4C40
Spares for Central and Western Substation	2 units	Spare (Shall be applicable as either Transformer Breaker, Line Breaker or Bus Circuit Breaker)	Spare

The contract should also cover routine testing and witness factory acceptance testing. The circuit breaker should be under warranty for at least 24 months and whether specified in detail or not, necessary for the securing of an efficient operation of the 33kV Circuit Breaker and the associated control and relay equipment.

2. SYSTEM PARTICULARS

System Particulars for 132kV, 33kV and 11kV system applicable in Fiji:

	<u>132KV</u>	<u>33KV</u>	<u>11KV</u>
Normal system voltage	132kV	33kV	11kV
System Highest voltage	145kV	36kV	12kV
Frequency	50Hz	50Hz	50Hz
Earthing of Neutral point	Directly earthed	Earthed through earthing transformer and earthing resistor.	Directly earthed
Design Symmetrical fault level Standard kA rated	4500MVA (31.5kA)	1125MVA (31.5kA)	250MVA (31.5kA)



3. SERVICE CONDITIONS

The Service Conditions applicable in Fiji Islands:

Daily average ambient temperature	32° C
Max ambient temperature	45° C
Annual average ambient temperature	30 ° C
Minimum ambient temperature	5°C
Relative Humidity Altitude	95 % 100 m

Maximum Wind Speed (under cyclonic conditions) 100 m/sec - gusting

(under cyclonic conditions)

Isokeraunic Level 120

Seismic Level - open ended Richter scale 8 on the open ended

Richter scale 2663mm

Average Rainfall per year 2663

Note: Fiji is situated in a region where cyclones are experienced frequently. All plant and equipment shall be designed and constructed to withstand these extreme conditions.

All plant and equipment shall be rust proof, vermin proof and weather proof and designed to be suitable for a damp, tropical climate, which may be experienced simultaneously.

4. GENERAL DESIGN CRITERIA

i. Insulation Co-ordination

The design of plant and equipment shall be such that insulation coordination is provided not only between different items of plant such as transmission line, surge arrestors, transformers, but also between different components of items within a particular item of equipment.

ii. <u>Interchangeability</u>

Corresponding items or parts shall be interchangeable as far as possible.

iii. <u>Maintainability</u>

All plant and equipment supplied by the contractor under this contract shall be maintainable. The contractor shall provide hard copies of operations and maintenance manuals and a soft copy for each breaker. The contractor shall supply safe working procedure for maintenance and any testing procedures. The contractor shall also supply all necessary tools and equipment required for this purpose.

iv. Ventilation



Building, cubicles and similar enclosed compartments shall be adequately ventilated to restrict condensation. All contactors relay coils etc. shall be suitably protected against corrosion and fully tropicalized and have IP64 ratings.

v. Risk of Fire

All apparatus, connections and cabling shall be designed and arranged to minimise the risk of fire and any damage, which might be caused in the event of fire.

5. GURANTEED QUALITY OF MATERIALS AND WORKMANSHIP

All materials supplied and used by the contractor under this contract shall be new and of the high quality and class most suitable for working under the conditions specified and shall withstand the variations of temperature, atmospheric conditions arising under working conditions without distortion or deterioration or the setting up of undue stresses in any part and also without affecting the strength and suitability of the various parts of the work which they have to perform.

All work shall be carried out and completed in a neat and professional manner to the approval of the Employer's Representative.

6. STANDARDS

IEC, IEEE and ASNZ Standards are to be adopted in general. Any other national or international standard may be used if such standards are not less exacting than corresponding IEC Standard. In such an instance a copy of the relevant standard should be forwarded.

6.1 International Standards

IEC 61958, 2000	High-voltage prefabricated switchgear and control gear assemblies - Voltage presence indicating systems
IEC 60051-1, 1997	Direct acting indication analogue electrical
·	measuring instruments and their accessories Part
	1: Definitions and general requirement common to
	all parts
IEC 60051-7, 1984	Direct acting indicating analogue electrical
	measuring instruments and their accessories Part
	7: Special requirements for multi-function
	instruments
IEC 608150	Heavy Grey Porcelain or Silicon rubber.
	ear, e.e., . e.eeta e. e.e.

6.2 Australian Standards

AS ISO 1000 - 1998	The international system of units
AS 1852.441 - 1985	International electro-technical vocabulary -
	Switchgear, control gear and fuses



SE .	
AS/NZS 1052:1992	CISPR specification for radio interference
	measuring apparatus and measurement methods
AS 1566 - 1997	Copper and copper alloys - Rolled flat products
AS 1734:1997	Aluminum and aluminum alloys - Flat sheet, coiled
	sheet and plate
AS 4398.1-1996 (R2010)	Insulators - Ceramic or glass - Station post for
	indoor and outdoor use - Voltages greater than
	1000 V a.c Characteristics
AS 4680:2006	Hot-dip galvanized (zinc) coatings on fabricated
	ferrous articles
AS 2067 - 2008	Substations and high voltage installations
	exceeding 1kV a.c.
AS 2650 - 2005	Common specifications for high-voltage
	switchgear and controlgear standards
AS 2700S - 1996	Colour Standards for general purposes
AS/NZS 60137:2008	Insulated bushings for alternating voltages above
	1000 V
AS 60529:2004	Degrees of protection provided by enclosures (IP
	Code)
AS 62271-100, 2008	High-voltage switchgear and control gear - High-
	voltage alternating-current circuit-breakers
AS 62271-200, 2005	High-voltage switchgear and control gear - A.C.
	metal-enclosed switchgear and control gear for
	rated voltages above 1 kV and up to and including
	52 kV
AS 62271-201, 2008	High-voltage switchgear and control gear - A.C.
	insulation-enclosed switchgear and control gear
	for rated voltages above 1 kV and up to and
	including 52 kV
AS 62217 - 2007	Polymeric insulators for indoor and outdoor use
	with a nominal voltage > 1000V - General
	dimensions, test methods and acceptance criteria
AS 60044.1 - 2007	Instrument transformers - Current transformers
	(IEC 60044-1 Ed.1.1 (2003) MOD)
AS 1675 - 1986	(obsolescent) Current transformers - Measurement
	and protection (obsolescent)
AS 62271.301 - 2005	High voltage switchgear and control gear -
	Dimensional standardization of terminals

7. DETAILED DESIGN OF PLANT AND EQUIPMENT

The detailed design of plant and equipment including plant layout, protection, control, supervisory interface equipment, earthing, civil works designs etc. shall be forwarded by the bidder in accordance with acceptable standards and codes of practice.

Notwithstanding the specifications, technical schedules or plant requirements specified by the tender document, the successful contractor shall be fully responsible for ensuring that the design, manufacture or construction of all items of plant and equipment under this contract to be fully functional,



compatible with each other technically and otherwise, complying with IEC and/or other relevant standards, and other safety regulations applicable, and to have the installation complete in all respects including finishing, painting, labelling etc.

The successful contractor shall from the commencement of his contract, submit to the Employer's Representative his design concept, detailed designs, technical submissions, design, manufacture and construction drawings.

The Employer's Representative will ensure that any revisions required, or in the absence of any such revisions the approval for such drawings, technical submissions, designs or proposals shall be notified to the bidder within a reasonable time period.

8. PLANT AND EQUIPMENT TO BE SUPPLIED

All items of plant and equipment supplied by the bidder under this contract shall be of proven design, manufacture and construction, and shall have been in commercial operation for at least minimum ten (10) years. Tenderer should furnish a list of past orders, indicating the type of equipment, location, country, person contact details etc. in support of this.

9. INSPECTION AND TESTING

All tests shall be carried out in accordance with the relevant IEC or other standards. Testing requirements are to be read in conjunction with the document EP 00 00 00 15 SP, Common Requirements for Electric Power Equipment. The company requires the tenderer to allow for Two (2) EFL personnel for witness testing of the circuit breaker at the factory with all airfare, accommodation cost and expenses inclusive as part of the FAT and includes all routine tests as stipulated in the standards.

a) Factory Tests

Complete tests shall be made at the manufacturer's plant to determine the performance and operating characteristics of the assembled circuit breaker, and their respective accessories and to determine whether or not the guarantees have been met. Unless otherwise specified, all tests shall be carried out in accordance with relevant standard.

b) Routine/acceptance tests minimum acceptance

The following routine tests in accordance with AS62271.100 Clause 7 shall be conducted on all circuit breaker and associated equipment. Provide a list of routine tests that will be conducted on each circuit breaker before dispatch.

- 1. Mechanical operation tests
- 2. Power frequency voltage test
- 3. Dielectric Tests on auxiliary & control circuits
- 4. Measure of resistance of the main circuit
- 5. Capacitance and dissipation Factor Test
- 6. Tan Delta
- 7. Ductance Test
- 8. Opening & Closing Speed Test (Timing Test)



- 9. Dielectric and visual checks.
- 10. Tightness test
 11. Partial discharge measurement test
 12. Design and visual checks



c) Type test

The circuit breaker shall be of type tested design. It is anticipated that the following type tests in accordance with AS 62271.100 or IEC equivalent. Results of the type tests shall be submitted. Details of test certificates demonstrating compliance with the specifications including the name of test, test station where test was conducted, test date, test certificate number, detailed test report number and results shall be provided. Type test certificate for each of the specified type tests shall be accepted where it can be demonstrated that the circuit-breaker is of a same design to the type tested circuit-breaker. All type test certificate shall be not more than 5 years old.

The contractor shall furnish two (2) sets of type test reports for all the tests along with the tender and the details of the offered 33kV Circuit breaker. Includes:

- 1. Breaking and making capacity tests
- 2. Short time withstand current and peak withstand current tests
- 3. Low and high Temperature tests
- 4. Lightning impulse voltage test
- 5. Dielectric tests
- 6. Radio interference voltage tests
- 7. measurement of the resistance of the main circuit
- 8. tightness tests
- 9. EMC tests
- 10. mechanical operation test at ambient temperature
- 11. short-circuit current making and breaking tests
- 12. capacitive current switching tests (as applicable)
- 13. verification of the degree of protection
- 14. humidity test
- 15. static terminal load tests
- 16. critical current tests
- 17. electrical endurance tests

Note: Results of routine tests shall be compared with those of type test results.

10. TRAINING OF EFL PERSONNEL

The company requires EFL personnel to be trained on the operation, maintenance and testing of the particular circuit breaker during the Factory Acceptance Test (FAT). Upon receipt of the circuit breaker in Fiji, the EFL representatives should be able to conduct a training session on installation, operation, maintenance of equipment to be supplied under this contract.



11. TOOLS AND EQUIPMENT

The tenderer shall forward a list of tools and equipment required for safe operation and maintenance of the installation and includes the cost of supplying such tools and equipment as part of the tender submission. In addition to the recommended tools and equipment, the following needs to be supplied:

 1 x Circuit Breaker timing test set CIBANO 500 inclusive of 3 x CB MC2, 1 x CBTN3, probes sufficient for testing all poles of outdoor 132kV 3 phase breaker simultaneously and carry case.

12. SPARES

The tenderer shall forward a list of manufacturer's recommended spare parts required for operation and maintenance of the plant and equipment supplied under this contract for a period of 15 years. The cost of supply of these essential spare parts should form part of the contract but should be shown in a separate price schedule.

In addition to the manufacturer's recommended spare parts, the follow spares need to be supplied:

In case of Actuator type circuit breaker:

- 1. 4 x Control Module
- 2. 6 x Gas Monitoring board
- 3. 6 x DC Converter Board
- 4. 20 x Green Indication lamp and 20 x Red indication lamp
- 5. 10 x indication lamps for trip circuit supervision
- **6.** 5 x resistor for trip circuit supervision if applicable
- 7. 6 x Local/Remote Switch and 6 x Trip Close Switch with sufficient contacts
- **8.** 50 x spare fuse (shall include equal numbers of various sizes of fuses installed in the CB)
- 9. 4 x Gas Pressure Measuring gauge
- **10.** 6 x anti-condesation heater
- 11. 20 meters door rubber

In case of spring charge circuit breaker:

- 1. 2 x trip coil
- 2. 2 x closing coil
- 3. 5 x Green Indication lamp and 5 x Red indication lamp
- 4. 3 x indication lamps for trip circuit supervision
- **5.** 2 x resistor for trip circuit supervision if applicable
- **6.** 2 x Local/Remote Switch and 2 x Trip Close Switch with sufficient contacts
- 7. 10 x spare fuse or 3x MCB or appropriate ratings
- 8. 2 x Gas Pressure Measuring gauge if not installed
- **9.** 1 x anti-condesation heater
- **10.** 20 meters door rubber

Note: The employer reserves the right to remove any spares or amend the



quantity at the time of award of the tender.

13. TECHNICAL LITERATURE - OPERATIONS AND MAINTENANCE MANUALS

Tenderers shall furnish all technical literature, including catalogues, test certificates for new equipment supplied. Successful contractor shall forward 2 hard copies and soft copy in usb of all operations and maintenance manuals, spare parts catalogues, and copies of detailed schematic and wiring diagrams in AutoCAD 2021 format or greater, plus all other documents required for satisfactory operation and maintenance of plant for each circuit breaker.

14. PACKING

Equipment shall be carefully packed for transport and shipment in such a manner that it is protected from all dust and climatic conditions during loading, transport, unloading and subsequent storage in the open.

Equipment shall be suitably packed and protected against vibration, movement and shock which may occur during loading and transport. Particular care in packing shall be taken when the apparatus is transported by road.

Instruments and fragile items shall be packed separately. All items, which include delicate equipment, shall be sealed in polythene sheeting and silica gel desiccant or vapour corrosion preventive shall be inserted within the polythene packing. Straw shall not be used as packing material.



SECTION 2B

DETAILED TECHNICAL SPECIFICATION FOR MAIN ITEMS OF PLANT

Contract for the Supply of One (1) Unit of 33kV Dead Tank Outdoor Circuit Breaker for EFL's Korolevu Substation and Two (2) Spare units.

1. SWITCHGEARS

A. System Conditions

The proposed 33kV switchgears shall be suitable for use under the following conditions.

a.	Normal Service Voltage	33kV
b.	Rated Voltage	36kV
c.	Number of Poles	3
d.	Frequency	50Hz

B. Rated Insulation Level

a. Lightning impulse withstand voltageb. One min power frequency withstand voltage80kV

2. Operating Mechanism

The circuit breaker shall be operated by from the nominal 110V DC Direct Current station battery bank.

Provision should be made for remote indication if vacuum of "charged" and "charge fail" conditions. An Emergency manual trip device shall be provided and arranged so as to avoid inadvertent operations.

The circuit breaker shall also be operated remotely through interposing relays and intelligent SEL protection relays. The mechanism shall be capable of latching under maximum duty. Separate hand charging facility shall also be provided in case of spring charge operating mechanisms. In the event of a failure to latch in the closed position, it shall not be possible for the Circuit breaker to open except at normal speed.

The circuit breaker shall be fitted with dual trip coil and be "trip free". The current consumption of the trip coil must not exceed 2A. The circuit breaker operating time for protection tripping shall not exceed 0.1 seconds. The circuit breaker operating time shall be given in the technical schedule.

The tripping mechanism shall be of a type which acts directly on the circuit breaker mechanism and which will give positive operation with a battery voltage



of 50% of normal. The Tenderer shall state the maximum continuous current the trip coils can sustain the nominal operating current and the minimum pick-up and drop off voltages for all coils in the trip/close circuits. The resistance values of all coils shall also be stated.

The Tenderer shall submit details, including circuit diagrams, of the antipumping feature on the CB and shall state the operating time of any auxiliary devices. The anti-pumping feature shall function correctly in the presence of trip circuit supervision scheme. The anti-pumping device shall not shunt this current.

The operating mechanism shall be capable of storing enough energy for the operating sequence of C.B. at minimum temperature.

The operating mechanism is recommended to be made of aluminium and stainless metal and shall not use hard plastic. <u>Bidder to submit drawing of operating mechanism with component type labelled.</u>

3. Circuit Breaker Tank / Dead Tank

The circuit breaker should have a sealed aluminium tank incorporating a 3-phase interrupter and actuator module.

A stainless steel 316 grade control cubicle is to be mounted beneath the circuit breaker tank. This shall contain the local operating controls and multicore terminals. Where applicable a control module and/or power supply may be included together with any control and protection relays.

The equipment shall be designed for maintenance free operation. The bushings, tank and control box shall be manufactured from materials suitable for use in the most extreme environments.

4. Interlocks

The following interlocks and devices are to be provided for safe operation:

- i. Mechanical interlock preventing closing of circuit breaker either manually or electrically at any position between connected and disconnected.
- ii. Mechanical interlock preventing the circuit breaker from being closed if the earthing switch is closed.
- iii. Mechanical interlocks preventing closing of earth switch if the corresponding circuit breaker is in service position.
- iv. Electrical interlock to allow closing of bus earth switch only if all circuit breaker in respective bus section are in open and disconnected position.
- v. Electrical interlock preventing the closing of transformer circuit breaker if circuit is energised from other end.
- vi. Interlock to prevent closing of any breaker if bus earth switch is closed.
- vii. Mechanical interlock preventing the manual closing of the circuit breaker unless the secondary circuits plug is connected and secured to the socket



and blocking the removal of the plug if circuit breaker is closed.

viii. Electrical circuit preventing the remote closing of the circuit breaker if it is disconnected.

The circuit breaker shall be closed and opened for test purposes when in the isolated position.

It must be possible to 'safety' lock the circuit breaker in the disconnected position independently of whether the circuit breaker is open or closed. The hole, which accepts the shank of the 'safety' lock, shall be a minimum of 6mm diameter.

Circuit breaker shall be arranged such that closing in the earthed positions can only be carried out manually. All mechanical interlocks shall be applied at the point at which manual force will be used, so that stress cannot be applied to parts remote from that point, and shall be capable of withstanding all reasonable forces likely to be encountered by manual operation.

5. Position Selector Devices

Each circuit breaker shall be fitted with a lockable position selector device operated from the front of the panel such that the circuit breaker may only be operated into the pre-selected position.

6. Auxiliary Switches

Auxiliary switches in addition to those required for the control of the circuit breaker shall be supplied to control circuit with four each spare contacts. Four of these spare circuits shall close when the circuit breaker closes and the other four shall close when the circuit breaker opens. The drum type of switch with wiping contacts is preferred but the type offered shall be capable of adjustment relative to the operating position of the circuit breaker. Contacts shall be rated 120V 10A D.C.

7. Operation Counter

Each circuit breaker shall be fitted with an operation counter actuated from the mechanism. The counter shall be visible from outside and at a reasonable height.

8. Mechanical Indicators

A semaphore or other approved type of indicator to show whether the main contacts are in the closed or open position shall be provided on each circuit breaker.

The indicators shall be clearly visible and preferably located at eye level. If fitted behind a door they shall be clearly visible without the need to open the



door.

Semaphores and indicators shall be clearly marked as follows:

CB in Closed Position - 'ON' to be marked in white lettering on a <u>red</u> background CB in Open Position - 'OFF' to be marked in white lettering on a <u>green</u> background

Only one semaphore marking shall be visible externally at any time and should be reflective.

9. Isolating Contact for Auxiliary Circuits

The connections in the auxiliary circuits between the fixed and moving portions of the equipment shall be by means of either self-aligning plugs and sockets or a flexible interconnecting harness.

10. Circuit Breaker Control

Circuit Breaker shall be electrically controlled from the following control points.

Local Control - Located adjacent to the item of plant to facilitate maintenance, test operation and emergency operation.

Remote/Supervisory Control - Located at National Control Centre where principal items of the systems are monitored and remotely controlled by SCADA system. All external interlocks and remote indications defeated in the "test" operation. Refer to **Schedule B** for the complete the IO listing points.

11. Control Switches and Pushbuttons

Control switches shall be of discrepancy type and arranged to operate clockwise when closing the circuit breaker and anti-clockwise when opening them. They shall be designed to prevent accidental operation. Operation of switches of the discrepancy type shall be affected by two independent movements. Control switches for circuit breaker shall be of the non-locking type with spring return to the "neutral" position. The contacts of switches shall be strong and have a positive wiping action when operated.

Control switches shall be provided with labels to give clear indication as to the direction of each operation, for example, "Open" "Close" etc..

Switch includes

- a) REMOTE/LOCAL
- b) OPEN/CLOSE

12. Switchgear Indication and Alarm

Healthy trip lamp and push button with normally open contacts shall be provided



connected across trip supply to enable the tripping circuit to be tested while the tripping supply is maintained and the circuit breaker is closed. A resistance shall be included in the circuit to prevent inadvertent tripping of the breaker should the healthy trip lamp become short circuited. Automatic tripping of a circuit breaker shall energise a remote alarm circuit and illuminate the auto trip lamp on the tripped panel. The auto trip lamp shall remain energised until the protection relay has been manually reset.

Alarm indications, when initiated by a maintained contact, shall continue until automatically cancelled by the opening of the initiating contact. When initiated by a fleeting contact the indication shall continue until cancelled by hand.

13. Indicating Lamps (LEDs) and Fittings

Indicating lamps fitted into the facial of switch and instrument cubicles or panels shall be adequately ventilated. Indicating lamps should be of 110V DC LIGHT EMITTING DIODE (LED) type.

Lamps shall be easily removed and replaced from the front of the panel by manual means not requiring the use of extractors. The bezel of metal or other approved materials holding the lamp glass shall be easily removable from the body of the fitting so as to permit access to the lamp and lamp glass.

The lamps shall be clear and must fit into an accepted standard form of lamp holder. The rated lamp voltages should be 25 percent in excess of the auxiliary supply voltage.

The lamp glasses shall be in standard colours, red, green, white and amber. The colour shall be in the glass and the different coloured glasses shall be interchangeable. Transparent synthetic materials may be used instead of glass, provided such materials have fast colours and are completely suitable for use in tropical climate.

LED Schneider fitting bulb indications includes:

- a. OPEN (Green)
- b. CLOSE (Red)

14. Miniature Circuit Breaker

Facilities shall be provided for protection and isolation of circuits associated with protection control and instruments. They shall be of approved type and grouped, as far as possible, according to their functions. They shall be clearly labelled, both on the panels and the associated wiring diagrams. Facilities shall be provided to enable the control circuits for circuit breaker to be individually isolated for maintenance purposes. Miniature air circuit breaker (MCB) shall comply with BS 3871 part 1. A label shall be fixed immediately below each MCB base clearly showing the rating of the MCB and the control circuit it is intended for.



15. Earthing

The secondary circuit of each current transformer shall be earthed at one point only. The yellow phase of the three phase Voltage Transformer secondary winding shall be earthed. Means shall be provided for these earth connections to be disconnected at a readily accessible position for testing.

16. Secondary Wiring

All secondary control wiring in circuit breaker, panel wiring and the like shall be carried out in a neat and systematic manner with cable supported clear of the panels and other surfaces at all points to obtain free circulation of air.

In all cases, the sequence of the wiring terminals shall be such that the junction between multi-core cables and the terminals is effected without crossover. Claw washers or crimped connectors of approved type shall be used to terminate all small wiring. Insulating bushings shall be provided where necessary to prevent the chafing of wiring. All PVC insulated panel wiring shall comply with the requirements of BS 6231 Type A or B as appropriate.

Conductors shall generally have a minimum cross section equivalent to 50/0.25mm (2.5mm²) but single stranded conductors should only be employed for rigid connections which are not subject to movement or vibration during shipment, operation or maintenance. Flexible conductor's equivalent to 30/0.25mm (1.5mm²) or small sizes generally shall only be employed with written approval of the purchaser. All cables will be PVC-PVC type with steel wire armour. Control cables exposed to sunlight and weather should be in flexible conduits. Others should be neatly mounted on cable trays

Each CB and its associated equipment shall have one marshalling box for all the necessary wiring connections to separate panels. At the marshalling point, junction boxes shall be fitted with removable covers so that the terminals and connections can be made readily accessible. All control circuit wiring and auxiliary switch contacts shall be brought out to these junction boxes. The ends and taps of each CT secondary winding shall be brought out to the terminal strip where selection of CT ratios will be made as required. These terminals should be of the type, which has the provision for CT shorting. Wire colours shall be as follows:

Colour of Wire	Circuit Particulars
Brown Grey	DC Indication Circuits DC Circuits, other than Indication Circuits
Red	A - Phase connections in CT Circuits only
White	B - Phase connections in CT Circuits only
Blue	C - Phase connections in CT Circuits only



Green Stripes	with	Yellow	Connections to earth
Black			A.C Neutral connections to the secondary circuits of CT's
Any othe	r Colour	S	Connections other than those above

All wires shall be fitted with numbered ferrules of approved type at each termination. At points of interconnection between wiring, where a change of numbering cannot be avoided, this shall be clearly indicated on the wiring diagram and both ferrules of approved type at each termination. At points of interconnection between wiring, where a change of numbering cannot be avoided, this shall be clearly indicated on the wiring diagram and both ferrule numbers shall appear at each end of each wire. *Use through cable lugs and NOT fork lugs for cable terminations*.

The ferrules on all wiring directly connected to circuit breaker trip coils, tripping switches, etc. shall be of a colour, preferably red, different from that of the remainder and marked "T" or "trip". No wires may be tied or jointed between terminal points.

All metallic cases of instruments, control switches, relays etc, mounted on panels shall be connected by means of green with yellow stripes PVC insulated copper conductors of not less than 2.5mm² section to the nearest earth bar. The breaker panel circuits, which are extended for remote operation of alarm, indication and control functions, shall be wired to terminals on the terminal board.

17. Wiring & Schematic Tables and Diagrams

Wiring diagrams or tables shall be provided and shall show exactly how the equipment is wired and must show both wiring and terminal numbers. Wires carrying main supplies must be indicated and show whether the supply is for protection or control etc. All diagrams shall be drawn as viewed from the back of the panel. Also to be supplied in AutoCAD format. Schematic diagrams shall be provided and shall include all the wiring in all the plant supplied. Layouts shall be schematic and not geographical. Terminal numbers must be clearly shown and the equipment to which they belong clearly identified and the location of the equipment able to be determined. Where a relay coil is shown all contacts must be indicated adjacent to it. All contacts illustrated on other parts of the diagrams must be cross referenced and a brief description of their purpose given. The use of dotted lines to associate a contact with its coil is acceptable.

18. Bushing and Insulators

Self-contained bushings within the scope of IEC 137 shall be separately rated



and tested in accordance with that standard. The Tenderer shall also show by partial discharge measurements or by other means that the bushing, when mounted in a complete circuit breaker, has a satisfactory electrical stress distribution pattern. The Tenderer shall supply drawings showing the construction and mounting of all terminals and bushings or equivalent insulation in sufficient detail to indicate the mechanical strength characteristics of the solid insulation characteristics of the solid insulation material used. Bushing construction shall be such as to allow free expansion of the central conductor. Necessary details of the bushing shall be provided that is; type, material, make, country of origin, applicable standards, type tested, colour, external creepage distance, maximum partial discharge level and provide list of type tests conducted with dates and names of test station.

19. Anti-Corrosion Precautions

In choosing materials and their finishes, due regard is to be given to the humid tropical conditions under which equipment is to work. Equipment offered shall be constructed of materials and be finished in such a way that corrosion is minimized.

- a. Current carrying parts shall be made from non ferrous metal.
- b. Materials and combinations of materials used in the construction of the equipment shall be selected and arranged to prevent electrolytic corrosion.
- c. Aluminium and its alloys, whether used for current carrying or structural purposes, shall be resistant to auto electrolytic and chemical action.
- d. Ferrous parts shall be either hot-dip galvanised or painted.
- e. Plastic materials are not recommended
- f. IP64 rated weatherproof control panel.

Surfaces to be galvanised or painted shall be sound, clean and free from harmful scale, rust, grease, moisture or any other foreign matter which will in any way detract from the life and usefulness of the coating to BS standards.

20. Environmental considerations suitable to tropical climate and IEC standards

The following environmental factors shall be considered relevant to IEC/AS/BS standards:

- Maximum ambient temperature
- Maximum height above sea level
- Maximum wind pressure
- Seismic intensity
- Maximum noise level during breaker operation at 1 metre distance (dB)
- Maximum radio interference voltage at 1 MHz
- Corona extinction voltage (kV)



21. Labels and Engraving

Labels shall be white background with black letters ferrules. They shall be made of engravable phenolic material machine engraved with suitably sized vertical characters as shown in Figure 14 of BS 308. Small labels shall be fixed with a suitable adhesive, larger labels such as those used on test switches shall be fixed with No. 8BA or similar brass screws tapped into the panel. All labels and escutcheon titles shall be approved by the purchaser. The labels to include

- 1. Feeder Name e.g. Hibiscus Park B (600mm X 100mm)
- 2. Feeder ID e.g. 4D10
- 3. Open and close (100mm X 40mm)

22. Auxiliary Supply

The electricity supplies for auxiliaries will be:

- i) 240V AC at 50Hz Single Phase for panel heaters.
- ii) 110V DC station battery bank for Auxiliary supplies for essential indication, controls, protection, alarms and circuit breaker closing and tripping.

The circuit breaker shall be capable of operating reliably at voltages down to 50% for circuit breaker tripping and 80% for other circuits.

23. Handling Facilities

To facilitate erection and maintenance, all equipment that cannot be conveniently handled by slings shall be fitted with, or have provision for fitting, eyebolts for lifting purposes.

24. Name Plate & Diagram

The Circuit Breaker shall be provided with a name plate marked with rating data in accordance with IEC 56 clause 5.9. The name plate shall also record the highest short circuit and current rating to which the equipment has been tested.

25. Anti-Condensation Heaters

Any major items of the breaker panel which are liable to suffer from internal condensation due to atmospheric or load variations shall be fitted with heating devices controlled by thermostats suitable for electrical operation at 240 Volts A.C @ 50Hz single phase of sufficient capacity to raise the internal ambient temperature by 5°C. The electrical apparatus so protected shall be designed so that the maximum permitted rise in temperature is not exceeded if the heaters are energised while the apparatus is in operation.

Where fitted, a suitable terminal box and AC control switch circuit breaker shall



be provided and mounted in an accessible position.

26. Control Panels, Instruments and Wiring

Routine tests shall be carried out in accordance with the appropriate IEC recommendations. Secondary wiring tests at 2kV for one minute.

27. Minimum Power Consumption

The circuit breaker shall have a facility, such as capacitor bank, to allow minimum power consumption from the station DC supply. This shall operate in such a way that it takes minimum current from the battery bank but supplying required power to the actual operation of the breaker from make and break.

28. Size of the Circuit Breaker

The circuit breaker dimension shall be of very suitable size. The width in particular has to be no more than 1400mm. This is to allow safe working distance from the 33kV breaker to 33kV isolator. As of general setup, on the either sides the circuit breaker, there will be 1 each 33kV isolator. The installation distance of a circuit breaker and an isolator is 2800mm. However, the distance between the live part of the Isolator and the breaker, upon installation, decrease significantly. Therefore, the breaker width shall be no more than 1400mm to compromise this standard.

2. PROTECTION

Protection scheme shall be compatible with the existing Protection system in EFL and wired up to the control panel and labelled.

Generally, the Current Transformers, CTs in the circuit breaker should be able to handle the following protection schemes:

- 1. Line/ Transformer Differential Protection
- 2. Distance protection
- 3. Overcurrent/ earth fault
- 4. Earth Fault Protection
- 5. Bus Zone Protection

The protection relays shall comply with the requirements of BS 142.

The CT inputs of withdrawable type or plug in type relays shall be automatically short-circuited when the relay is withdrawn or unplugged, respectively.

The successful contractor shall provide the adequate numbers of CT, interposing CT with adequate numbers of secondary's of sufficient ratings to ensure proper functioning of the Protection Scheme specified. **Schedule A** list the CT requirement of the circuit breaker.



SECTION 3 SCHEDULES

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SCHEDULE A: Schedule of TECHNICAL PARTICULARS for Main items

	EFL Value	Manufacturer
Magazifa akuman /Cumalian		
Manufacturer/Supplier	IDE 4	
Degree of Protection	IP54	
Type of Circuit Breaker	Outdoor	
Interrupting Medium	Vacuum	
Standards	IEC62271-100	
Testing Authority -Certificate/Report		
Reference		
Number of Poles	3	
Rated Voltage and Frequency	36kV, 50Hz	
Rated Normal Current	2,000A	
Impulse Withstand Voltage	200kV	
Interrupting current	31.5kA	
Power Frequency Withstand Dry	80kV	
Power Frequency Withstand Wet	80kV	
Rated peak making current	80kA	
Breaking Capacity: - Symmetrical RMS	kA	
Breaking Capacity: - Asymmetrical RMS	kA	
Short Time - 1 sec RMS, 3sec		
withstand RMS		
Turb	O-0.3"-CO-3'-	
Rated operating sequence	CO	
Opening Opening		
Time - Without current	ms	
- At 100% of breaking	1113	
current	ms	
Maximum Arc duration duty cycle of	1113	
IEC56-2		
Critical Current which max Arc duration		
occur		
Closing Time	ms	
Method of closing	1113	
Method of crossing Method of tripping		
•	Α	
Closing Release Coil Current	A 110V DC	
Control Voltage	110V DC	
Trip coil Current	A 440V DC	
Trip coil Voltage	110V DC	
Power at Normal Voltage for closing	W	
Overall dimensions of the		
CB Unit (L×H×W)	000:	
Weight of CB Complete with all fittings	< 800kg	
State Compression or Tension	N	
Minimum Clearance in Air - Between		
Phases		



Minimum Clearance in Air - Phase to Earth	
Minimum Clearance in Air - Across CB	
Poles	
Insulation Material- Bushings Support	
Insulators, Operating Rods, Contact Rods	
Period equipment has been in commercial	
operation	15 yrs Minimum
Number of trip coils and close coils	
Variation on auxiliary supply voltage	
Power consumed by close coil	
Power consumed by trip coil	
Magnetic Actuator rating	
Total length of break	
Type main contact	
Type of arching contact	
Type of arc control mechanism	



SCHEDULE B: CT RATIOS & CLASS

CT Details for Korolevu SS 33kV Transformer Breaker Upgrade.

		Transformer SIDE - P2		В
		CORE 1	CORE 2	PE-
		BUS ZONE	OC/EF	AKER
Korolevu	4C40 - Transformer T1	2000/1200/600/1	600/400/1	
Substation	re-transformer in	0.1PX415R3	5P20	

33KV BUS SIDE - P1		
CORE 3	CORE 4	
Transformer DIFF		
600/400/200/1		
0.1PX415R3		

CT Details for Spare Circuit Breaker Central

		33KV Bus - 2 SIDE - P2		
		CORE 1	CORE 2	
		BUS ZONE 2	OC/EF	
Spare	Cambual	2000/1200/600/1	2000/1200/600/1	
Spare	Central	0.1PX415R3	5P20	

	33KV Bus - 1 SIDE - P1		
CORE 4		CORE 5	
	BUS ZONE 1		
	2000/1200/600/1		
	0.1PX415R3		

CT Details for Spare Circuit Breaker Western

		33	3KV Bus - 2 SIDE - P2	В
		CORE 1	CORE 2	RE
		BUS ZONE	OC/EF	
Cnows	2000/1200/1	800/600/400/1	2000/1200/1	$\neg \neg$
Spare	0.1PX415R3	5P20	0.1PX415R3	

7	33KV Bus	- 1 SIDE - P1
Jai	CORE 3	CORE 4
TIII'	DIFF	
	800/600/400/1	
	0.1PX415R3	



SCHEDULE C : Drawings

The following drawings are required to be furnished with tender for each circuit breaker.

	<u>Title</u>	Drawing Number.
1	General arrangement for 33kV outdoor circuit and switch panels.	
2	A schematic the proposed circuit breaker	
3	Schematic Protection system	
4	Principles of Actuators	
5	Earthing Drawings	
6	Civil Drawings	
7	Any other relevant to the Circuit Breaker	



SCHEDULE D: DEPARTURES FROM THE SPECIFICATION

The Tender shall be deemed to be entirely in accordance with the requirements of this Specification, unless otherwise stated. Should any departures from the requirement of this Specification arise, and/or any alternative proposals be submitted, the details shall be outlined below:

Clause No	Details of Departure



SCHEDULE E PRICE SCHEDULE ON MAIN ITEMS

ITEM NO.	SUBSTATION	DESCRIPTION	Quantity	CFR To Suva Port Foreign Currency:	
				Unit Rate	Amount
1		CIRCUIT BREAKER			
1.1	Korolevu Substation	4C40 - Transformer T1	1		
1.2	Spares for Central and Western Substations	Spares for Central and Western Substations	2		
2		MISCELLANEOUS			
2.1		Tools & Equipment	1 set		
2.2		Spares	1 sets		
2.3		2 x EFL Representative FAT Witness Testing	1 set		
2.4		Others - Specify			
		TOTAL			



SCHEDULE F EVALUATION CRITERIA

The following criteria with corresponding scoring and weightings which will be utilised for evaluating the bids forms the Technical Evaluation Section. Those bids which score above 92% for the Technical Evaluation will be considered for further evaluation to their financial proposals.

	Criteria for Evaluation	Weighting	Score Range		
			10 - 7	7 - 4	4 - 0
1	Manufacturer's years of experience in production of 33kV Switchgear	5.00	Company has more than 20 years experience	Company has 15 - 20 years experience	Company has 10 - 15 years experience
3	Number of years the offered model has been in production and in the market	7.50	Model has been in the market for more than 15 years	Model has been in the market for 15 - 12 years	Model has been in the market for 3 - 10 years
4	Number of units of offered model sold in Pacific - Fiji/NZ/Australia	2.50	More than 750	Less than 500	Less than 250
5	Number of years of experience of key personnel to be involved in project	5.00	More than 10 years for most of the key personnel	Less than 10 years for most of the key personnel	Less than 5 years for most of the key personnel
6	Manufacturer's Warranty on Switchgear	5.00	More than 2 years	1 - 2 years	Less than 1 year
7	Type test reports on Switchgear	5.00	Results meet and exceed the requirements as per IEC standards	Results do not meet minimum specifications	Type test reports not submitted or not as per IEC standards
8	Conformance to acceptable values for routine tests as specified in tender	2.50	Submits evidence that switchgear will conform to and exceed	Evidence of switchgear will conform to most of the test requirements	No evidence of conformance to test requirements



9	Comprehensiveness of proposed design	2.50	All the design details are addressed as that would be expected in an ideal proposal.	Relevant design details are addressed in terms of design as that compared to an ideal proposal. The proposal conforms to most of the items stated in the specifications	Extent of consideration placed into design is significantly less than that expected in a reasonable proposal. Most of the items stated in specifications are not met.
10	Nominal Circuit Breaker parameters	20.00	Circuit breaker parameters exceed the nominal required performance ratings	Circuit breaker parameters are equal to the nominal required performance ratings	Circuit breaker parameters are below the nominal required performance ratings
11	Evaluation of Current Transformers	5.00	Offered CT ratings exceed the specifications and from Europe	Offered CT ratings are equivalent to the specifications	CTs Offered are below the specification
14	Maintenance Requirements for Switchgear	10.00	Needs maintenance every 3 years or more or after 10000 operations	Needs Maintenance every 2 - 3 years	Needs Maintenance every 1 - 2 year
15	Safety Requirements for Switchgear	5.00	Meets and exceeds the safety requirements of the switchgear, with added consideration to safe design and operation	Meets most of the safety requirements for the switchgear	Does not meet the level of safety features for the switchgear
16	Innovation in Design	15	High degree of innovation incorporated into design compared to similar products in market	Evidence of some innovation incorporated into design	No evidence showing any innovation in design
18	Delivery period and timeline	5.00	Delivery period is within 26	Delivery period is within 39 weeks	Delivery period would exceed 52



			weeks	weeks	weeks
19	Quality Control	5.00	Manufacturer has quality system in accordance with international standards and produced evidence of regular third party audits	Manufacturer appears to have a quality system in place.	Manufacturer has a record of providing reasonable quality material but provides no evidence of a quality system
	Total	100%			

Note:

The seller is required to use INCOTERMS - CFR for the delivery of items at the buyer's Port, i.e. Suva Port, Fiji. All cost relating to this INCOTERMS needs to be beared by the bidder and shall be reflected on the bid price accordingly. Energy Fiji Limited will arrange own Marine Insurance for the sea freight.



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	y (Mandatory)
9.	FNPF Employer Registration Number:(For Local Bidders only) (N	Mandatory)
10.	Provide a copy of Valid FNPF Compliance Certificate (Mandatory- Local Bi	idders only)
11.	Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory $Local Local L$	cal Bidders only)
12.	Provide a copy of Valid FNU Compliance Certificate (Mandatory Local Bide	ders 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 5th March, 2025.

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.fi

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.