

ENERGY FIJI LTD



Tender No. MR 186/2021

THE SUPPLY OF 2 X STAMFORD ALTERNATORS FOR QSK60-G4 AND KTA50-G3 CUMMINS GENERATORS

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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;

Scope A – Supply of 1 x Stamford Alternator for QSK60-G4 Cummins Engine

Scope B - Supply of 1 x Stamford Alternator for KTA50-G3 Cummins Generators

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: <u>https://www.tenderlink.com/efl</u>

This is due to COVID 19 restrictions on movements. Therefore, 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 13th October, 2021.

For further information or clarification please contact our Supply Chain Office on phone (+679) 3224360 or (+679) 9992400 or email us on <u>tenders@efl.com.fj</u>

The 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.

Tender Submission via email or fax will not be accepted.

1.

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 in Australian, New Zealand, US or Fijian currency

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 MARKING OF BIDS

Tender can be submitted via electronic 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 and final 10% 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, Inventories & Supply Chain Energy Fiji Limited Private Mail Bag, Suva –FIJI

Telephone: (+679) 3313 333/9992400 E-mail: <u>JReddy@efl.com.fi</u>

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

<u>Supply Scope A – Original Alternator Data</u> Supply of 1 x Stamford Alternator for QSK60-G4 Generator Frame/Core: PI734G1, Machine ID number: A11C138532, KW Base Rate: 1708 KW, KVA Base Rate: 2135 KVA

<u>Supply Scope B – Original Alternator Data</u> Supply of 1 x Stamford Alternator for KTA50-G3 Generator Frame/Core: PI734G1, Machine ID number: A11C138532, , KW Base Rate: 800 KW, KVA Base Rate: 1000 KVA

The supply 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
 - 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 Alternator offered.

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

- a) Drawings showing all dimensions of the complete Alternator
- 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.

Standard:

2005/96/EC Low Voltage Directive 2004/108/EC The EMC Directive 2005/42/EC The Machinery Directive BS ISO 8526-3-2005 Part3 BS 5000-3-2005 Part3 EN61000-6-1-2007 EN61000-6-4-2007 EN ISO 12100-1-2003 Part1 EN ISO 12100-1-2003 Part2 EN6 14121-1-2007 Part1 EN 60034-1-2004 N61000-6-1-2007

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 & DELIVERY

The Tenderer shall deliver the complete equipment supply, CIF to Lautoka, Fiji, port.

3.2 SPECIFICATION TECHNICAL

3.2.1 SCOPE OF WORK

The Bidder is required to Supply the following Generator Alternators;

<u>Supply Scope A – Original Alternator Data</u> Supply of 1 x Stamford Alternator for QSK60-G4 Generator Frame/Core: PI734G1, Machine ID number: A11C138532, Serial number: 0276163/002, (as sample) Votage; 400-415V AC (Volts range is important) KW Base Rate: 1708 KW, KVA Base Rate: 2135 KVA

<u>Supply Scope B – Original Alternator Data</u> Supply of 1 x Stamford Alternator for KTA50-G3 Generator Frame/Core: PI734B1, Machine ID number: A11C138532, Serial number : X131396721 (as sample) Votage; 400-415V AC (Volts range is important) KW Base Rate: 1120 KW, KVA Base Rate: 1400 KVA

DESIGN REQUIREMENTS

Scope of Supply A

1 x Stamford Alternator for QSK60-G4 Generator

Serial No	
Frame/Core	P1734G1
Base Rating KVA	2135 KVA
Base Rating KW	1708 KW
Rated Amperes	3243.8A
Frequency	50
RPM	1500
Voltage	400-415V ac
Phase	3
PF	0.08
Duty	Continuos
Excitation Volts	60
Excitation Amperes	3.4
Insulation Class	CLASS H
Ambient Temp	40 C
Temperature Rise	125 Thermal Classification
Thermal Classification	180 C
Enclosure	IP 23
Stator Winding	312
Stator Connections	Star
Mounting Type	
Cooling Type	

Scope of Supply B

1 x Stamford Alternator for KTA50-G3 Generator

Serial No	
Frame/Core	PI734B1
Base Rating KVA	1400 KVA
Base Rating KW	1120 KW
Rated Amperes	2020.8 A
Frequency	50
RPM	1500
Voltage	400-415V ac
Phase	3
PF	0.08
Duty	Continuos
Excitation Volts	62
Excitation Amperes	3.5
Insulation Class	CLASS H
Ambient Temp	40 C
Temperature Rise	125 K
Thermal Classification	180(H)
Enclosure	IP 23
Stator Winding	312
Stator Connections	Star
Mounting Type	
Cooling Type	

3.2.10 TEMPERATURE RISES:

To CLASS H insulation standard

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.

3.3.2 Alternator Details to be supplied by Bidders

Scope of Supply A

Design Description	Design Data	Suppliers Design Data
Serial No		
Frame/Core	PI734G1	
Base Rating KVA	2135 KVA	
Base Rating KW	1708 KW,	
Rated Amperes	3243.8 A	
Frequency	50 Hz	
RPM	1500	
Voltage	400-415V ac	
Phase	3	
PF	0.08	
Duty	Continuous	
Excitation Volts	60	
Excitation Amperes	3.4	
Insulation Class	CLASS H	
Ambient Temp	40 C	
Temperature Rise	125 Thermal Classification	
Thermal Classification	180 C	
Enclosure	IP 23	
Stator Winding	12	
Stator Connections	Star	
Mounting Type		
Cooling Type		

1 x Stamford Alternator for QSK60-G4 Generator

Scope of Supply B 1 x Stamford Alternator for KTA50-G3 Generator

Design Description	Design Data	Suppliers DesignData
Serial No		
Frame/Core	PI734B1	
Base Rating KVA	1400 KVA	
Base Rating KW	1120 KW	
Rated Amperes	2020.8 A	
Frequency	50	
RPM	1500	
Voltage	400-415V ac	
Phase	3	
PF	0.08	
Duty	Continuos	
Excitation Volts	62	
Excitation Amperes	3.5	
Insulation Class	CLASS H	
Ambient Temp	40 C	
Temperature Rise	125 K	
Thermal Classification	180(H)	
Enclosure	IP 23	
Stator Winding	312	
Stator Connections	Star	
Mounting Type		
Cooling Type		

3.3 DELIVERABLES

To be completed and returned with tender document)

3.3.1 Schedule 1 - Bidders Particulars

1.	Full Company Name:
	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)

3.3.3 PRICE SCHEDULE -

	Description	\$ Amount
		Currency:
1	1 x Stamford Alternator for QSK60-G4 Generator	
2	1 x Stamford Alternator for KTA50-G3 Generator	
3	Freight, transportation cost, Insurance, Delivered Duty	
	INTECOM Terms - CIF Lautoka, Fiji, Port	
	TOTAL	
	Warrant / Duration	
8	Warranty Duration	

Notes:

* Please specify currency (FJD, USD, AUD, NZD)

4.0 **TENDER FORM 2 – PAYMENT SCHEDULE**

1.1.1.1 Supply of 1 x 1000A Automatic Changeover Switch (ATS)

1.1.1.2

No	Description	Percentage Payment of the Bid Price	Bid Price Foreign Currency	Amount in Fiji Dollar (FJD) VIP & All Duty Inclusive
1.	1 x Stamford Alternator for QSK60-G4 Generator and 1 x Stamford Alternator for KTA50- G3 Generator	90%		
2	Retention/Warranty of 12 Months from the Date of receiving the ATS in good condition	10%		
	Total Price (VIP)	100%		

5.0

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 Onl	ly (Mandatory)
9.	FNPF Employer Registration Number: (For Local Bidders only) (Mandatory)
10.	Provide a copy of Valid FNPF Compliance Certificate (Mandatory- ${ m Local}~{ m B}$	idders only)
11.	Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory ${f L} {f c}$	ocal Bidders only)
12.	Provide a copy of Valid FNU Compliance Certificate (Mandatory ${ m Local}~{ m Bid}$	lders 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: <u>https://www.tenderlink.com/efl</u>

This is due to COVID 19 restrictions on movements. Therefore, 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 13th October, 2021.

For further information or clarification please contact our Supply Chain Office on phone (+679) 3224360 or (+679) 9992400 or email us on <u>tenders@efl.com.fj</u>

The 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.

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6.0 APPENDIX