

Energy Fiji Limited



Tender Document

Tender No. : MR 01/2021

Testing of Exhaust Emission for Stationery Plant
at all EFL's Power Station

Generation SBA
Energy Fiji Limited

8 January 2021
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1.0 INVITATION FOR TENDERS

Energy Fiji Limited is inviting bids for a service contract for Testing of Exhaust Emission for Stationery Diesel and Heavy Fuel Oil Generator at all EFL's Power Station. This will be a service will be for a fix period of 3 years. The Detailed scope of works listed in the following pages.

Interested bidders may obtain Tender Document at the:

Supply Chain Office
Energy Fiji Limited
Head Office
2 Marlow Street, Suva
Contact: 322 4360 / 999 2400

All tenders shall submit all documents required including spares pricing as per price template.

During evaluation of tenders, the Authority will invite a tenderer or tenderers for discussions, presentations and necessary clarification before awarding of the contract

The tender submissions close on the **3/02/21**

2.0 INSTRUCTION TO BIDDERS

2.1 Eligible Bidders

- 2.1.1. This invitation is open to all Bidders who have sound financial background, and have previous experience in condition monitoring and emission testing methodology for stationary thermal plant e.g. Power Generators.
- 2.1.2. Bidders shall provide such evidence of their continued eligibility satisfactory to EFL as EFL shall reasonably request.
- 2.1.3. Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent practice.

2.2 Eligible Materials, Equipment and Services

- 2.2.1. The materials, equipment, and services to be supplied under the Contract shall have their origin from reputable companies as specified by EFL and from various countries and all expenditures made under the Contract will be limited to such materials, equipment, and services. Upon request, bidders may be required to provide evidence of the origin of materials, equipment, and services.
- 2.2.2. For purposes of this Contract, "services" means the works and all project-related services including design services.
- 2.2.3. For purposes of this Contract, "origin" means the place where the materials and equipment are mined, grown, produced or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing or substantial or major assembling of components, a commercial recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 2.2.4. The materials, equipment and services to be supplied under the Contract shall not infringe or violate any industrial property or intellectual property rights or claim of any third party.

2.3 One bid per Bidder

- 2.3.1. Each bidder shall submit only one bid. A bidder who submits or participates in more than one bid will cause all those bids to be rejected.

2.4 Cost of Bidding

- 2.4.1. The bidder shall bear all costs associated with the preparation and submission of its bid and EFL will in no case be responsible or liable for those costs.

2.5 Site Visits

- 2.5.1. No compulsory site visits are required for this tender but visitation can be accommodated if required.

2.6 Contents of the Bidding Documents

- 2.6.1. The bidder is expected to examine carefully the contents of this Bidding document. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Bids which are not substantially responsive to the requirements of the bidding documents will be rejected.
- 2.6.2. The following are the mandatory submission of a successful tender bid;
- Pricing Schedule
 - Program of Works
 - Company Profile (Max 2 pages in standard A4)
 - Work History - Project/ Work done with referee, EFL work history.
 - Company background
 - Bidder available resources e.g. Manpower, Machines & Equipment.
 - OHS Policies or Plan
 - Fiji Revenue & Customs Service (FRCA) compliance
 - Fiji National Provident Fund (FNPF) compliance
 - Signed checklist declaration (Appendix 5.1)

Failure to submit required documents may affect bid compliance even make it non-compliance.

2.7 Clarification of Bidding Documents

- 2.7.1. A prospective bidder requiring any clarification of the bidding documents may notify EFL in writing by fax (hereinafter the term "fax" is deemed to include electronic transmission such as facsimile, cable and telex), or email addressed to:

Jitendra Reddy
Unit Leader Strategic Procurement & Inventory Management
2 Marlow Street,
Suva, Fiji
Phone: +679 3224 360/9992400
Email: JReddy@efl.com.fj

- 2.7.2. EFL will respond to any request for clarification which it receives earlier than 10 days prior to the deadline for submission of bids.

2.8 Amendment of Bidding Document

- 2.8.1. At any time prior to the deadline for submission of bids, EFL may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by issuing addenda.

2.9 Language of Bid

- 2.9.1. The bid, and all correspondence and documents related to the bid, exchanged between the bidder and the EFL shall be written in the English language.

2.10 Bid Prices

- 2.10.1. Unless specified otherwise, Bidders shall quote for the entire facilities on a "single responsibility" basis such that the total bid price covers all the Supplier'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), testing and delivery.

- 2.10.2. Bidders shall give a breakdown of the prices in the manner and detail called for in this bidding document, or any issued addenda.
- 2.10.3. For Oversea Suppliers, bids shall be given on Delivered Duty Unpaid (DDU) basis. The point of delivery shall be Suva/Lautoka port for Sea or Nadi Airport for Air. The term DDU shall be governed by the rules prescribed in the current edition of Incoterms (i.e. the eighth version - Incoterms 2010), published by the International Chamber of Commerce, Paris. Stated Otherwise with validation. **(Not Applicable)**

2.11 Bid Currencies

- 2.11.1. Prices shall be quoted in a single currency only.

2.12 Bid Validity

- 2.12.1. Bids shall remain valid for a period of **60 days** from the date of Deadline for Submission of Bids specified in Sub-Clause 2.15.

2.13 Format and Signing of Bids

- 2.13.1. The bidder shall prepare one original and two (2) copies of the technical and financial proposals, clearly marking each one as: "ORIGINAL-TECHNICAL & PRICE PROPOSAL", "COPY NO. 1 - TECHNICAL & PRICE PROPOSAL", etc. as appropriate. In the event of discrepancy between the original and any copy, the original shall prevail.
- 2.13.2. The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the bidder. All pages of the bid where entries or amendments have been made shall be initialled by the person or persons signing the bid.
- 2.13.3. The bidder shall provide one electronic copy of the Technical and Financial proposals on EFL's electronic tender hosting website; <https://www.tenderlink.com/efl>
- 2.13.4. The bid shall contain no alterations, omissions or additions, except those to comply with instructions issued by EFL, or as necessary to correct errors made by the bidder, in which case such corrections shall be initialled by the person or persons signing the bid.

2.14 Sealing and Marking of Bids

- 2.14.1. The bidder shall seal the original copy of the technical proposal and the original copy of the price proposal and each copy of the technical proposal and each copy of the price proposal in separate envelopes clearly marking each one as: "ORIGINAL-TECHNICAL & PRICE PROPOSAL", "COPY NO. 1 - TECHNICAL & PRICE PROPOSAL", etc. as appropriate.
- 2.14.2. The bidder shall seal the original bids and each copy of the bids in an inner and an outer envelope, duly marking the envelopes as "ORIGINAL", "COPY No. 1", etc.
- 2.14.3. The inner and outer envelopes shall
 - a) be addressed to EFL at the following address:

Jitendra Reddy
Unit Leader Strategic Procurement & Inventory Management
2 Marlow Street,
Suva, Fiji
Phone: +679 3224 360/9992400
Email: JReddy@efl.com.fj

And

b) bear the following identification:

Bid for: MR 01/2021 - Testing of Exhaust Emission for Stationery Plant at all EFL's Power Station.

- 2.14.4. In addition to the identification required, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to Deadline for Submission of Bids.
- 2.14.5. If the outer envelope is not sealed and marked as above, EFL will assume no responsibility for the misplacement or premature opening of the bid.

2.15 Deadline for Submission of Bids

- 2.15.1. Bids must be received by EFL at the address specified above no later than 1600 hours (Fiji Time) **3/02/21**.
- 2.15.2. EFL may, at its discretion, extend the deadline for submission of bids by issuing an addendum, in which case all rights and obligations of EFL and the bidders previously subject to the original deadline will thereafter be subject to the deadlines extended.

2.16 Late Bids

- 2.16.1. Any bid received by EFL after the deadline for submission of bids prescribed above will be rejected and returned unopened to the bidder.

2.17 Modification and Withdrawal of Bids

- 2.17.1. The bidder may modify or withdraw its bid after bid submission, provided that written notice of the modification or withdrawal is received by EFL prior to the deadline for submission of bids.
- 2.17.2. The bidder's modification or withdrawal notice shall be prepared, sealed, marked and delivered in accordance with Sealing and Marking of Bids, with the outer and inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL", as appropriate. A withdrawal notice may also be sent by fax but must be followed by a signed confirmation copy.
- 2.17.3. No bid may be modified by the bidder after the deadline for submission of bids.

2.18 Rejection of one or all Bids

- 2.18.1. EFL reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the rejection.

2.19 Process to be Confidential

- 2.19.1. Information relating to the examination, clarification, evaluation and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process.
- 2.19.2. Any effort by a bidder to influence EFL's processing of bids or award decisions may result in the rejection of the bidder's bid.
- 2.19.3. Lowest bid will not necessarily be accepted as successful bid.

2.20 Clarification of Bids

- 2.20.1. To assist in the examination, evaluation and comparison of bids, EFL may, at its discretion, ask any bidder for clarification of its bid. The request for clarification and the response shall be in writing or by fax, but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by EFL in the evaluation of the bids in.

2.21 Preliminary Examination

- 2.21.1. Energy Fiji Limited will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed, and whether the tenders are generally in order.
- 2.21.2. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the tenderer does not accept the correction of the errors, its tender will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.
- 2.21.3. Energy Fiji Limited may waive any minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any tenderer.
- 2.21.4. Prior to the detailed evaluation, pursuant to Clause 21, Energy Fiji Limited will determine the substantial responsiveness of each tender to the tender document. For purposes of these paragraphs, a substantially responsive tender is one, which conforms to all the terms and conditions of the tender document without material deviation Energy Fiji Limited's determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
- 2.21.5. If a tender is not substantially responsive, it will be rejected by Energy Fiji Limited and may not subsequently be made responsive by the tenderer by correction of the nonconformity.

3.0 **TECHNICAL SPECIFICATION**

3.1 **General Information**

Subject to local Air pollution regulation, every commercial or industrial facility in Fiji that emits exhaust gases, smoke, steam or dust from any of its premises, must hold an air pollution permit in respect of the emission.

A facility does not require an air pollution permit if the emissions from the facility comply with the national air quality standards for such emissions, taking into account :

- The type of substance emitted;
- the quantity and frequency of the emissions; and
- the surrounding environmental factors.

EFL require a service provide to test exhaust emission of all Stationary Thermal Plant; HFO & Diesel Plant and report on the quality of emissions. In order to meet the emission standards, the concentration of a point source (Generator) of substance must not exceed the concentration as indication in the specifications (Section1.3).

3.1.1 **Preliminary and General Conditions**

The contractor shall furnish all labour, equipment, transportation and services as necessary to complete all projected work included in this specification.

3.1.2 **Site Location**

| Region | Location | Number of Plant |
|---------------|------------------------|------------------------|
| Central | Kinoya Depot | 10 |
| | Korovou Power Station | 2 |
| | Rokobili Power Station | 5 |
| | Deuba Power Station | 3 |
| Ovalau | Levuka Power Station | 5 |
| Western | Veda Power Station | 5 |
| | Sigatoka Power Station | 9 |
| | Nadi Power Station | 5 |
| | Qeleloa Power Station | 3 |
| | Rakiraki Power Station | 2 |
| Northern | Cawaira Power Station | 12 |
| | Savusavu Power Station | 5 |
| Taveuni | Waiyevo Power Station | 2 |
| Total | | 68 |

3.1.3 **OHS Requirements**

The contractor shall at times comply with all Energy Fiji Limited's HSE Regulations.

3.1.4 **Building Conditions**

The contractor is advised to visit and assess the site and existing premises prior to tendering, as no claim will be allowed on the grounds of ignorance of the conditions existing.

3.1.5 Work Plan

The contractor shall prepare a Work Programme, Work Safety Plan/Risk Assessment Plan in accordance and shall submit the plan to the property officer for his approval before commencing with work on the site.

3.1.6 Site Safety Management System

The contractor shall establish and maintain a Site Safety Management that ensures the safety of all persons on the site in accordance with the requirements of the Energy Fiji Limited Occupational Health and Safety Policy and the Health and Safety at Work Act, 1996 requiring strict compliance by the parties here to. The Contractor is to obtain all approvals from Ministry of Labour for any scaffolding to be used on the site. All PPE's and other safety equipment's will be checked by EFL's Health and Safety Department (HSE) to confirm if they are in compliance with the relevant current safety standards. No work shall commence prior to approvals given from EFL's HSE Department.

EFL will carry out an induction for the contractor and its members to familiarize with the Energy Fiji Limited Occupational Health and Safety Policy.

3.1.7 Environmental Control

Comply with all environmental protection provisions in the contract and the requirements of any statute, by law, standard and the like related to environmental protection.

3.1.8 Protection of People and Property

The contractor shall keep all persons (workers) under control and within the boundaries of the site. He will be held responsible for the care of the existing premises and works generally until completion.

3.1.9 Duration of Service

The expected duration for these services will be contracted for 1 Years (Can be extended based on performance).

3.1.10 Storage of Materials and Equipment's

Materials and equipment's stored on site must not pose any danger to property and minimize hazards to persons, materials and equipment. Keep storage area neat and tidy. Take proper precautions to keep poisonous and other injurious substance in place secured against access by unauthorised person.

3.1.11 Diary Reports

Inspection reports shall be submitted per inspection on a standardized form.

3.1.12 Care of the Works

The contractor shall keep all persons under control and within the boundaries of the site. He will be held responsible for the care of the existing premises and works generally until completion.

3.1.13 Clearing Away

The contractor shall take the removed rubbish and debris to a location which will be advised in the **site visit**.

3.1.14 Tobacco/Alcohol/Drug Free Environment

EFL maintains tobacco, alcohol and drug free environment. Any personnel of the contractor found violating the policy will be requested to remove the product and themselves from the sites. Offensive language or actions are not acceptable. The EFL shall have the absolute right to require replacement of any employee the EFL deems objectionable to work on EFL premises.

3.2 Insurances

The Contractor shall be solely responsible for all relevant insurance covers for person, tools, plants and equipment involved in carrying out the Works. The Contractor must obtain and maintain all relevant insurance covers at all material times sufficient to cover any loss or costs that may be incurred which the Contractor is liable for in connection with the duration and Scope of Works, including:

- Contractors All Risk
- Public Liability and
- Workmen's Compensation

3.3 Specification

3.3.1 Classification of substances

Substances are classified in Tables below are in the following categories according to toxic, persistent and carcinogenic qualities;

Category 1 - Environmentally Toxic and Persistent or Carcinogenic Substances The concentration of solid substances must not exceed 2.5 mg/Nm³ at the point of the exhaust. The concentration of a gas, vapour or haze of a substance must not exceed the MAC-value specified in Table 3 at the point of the exhaust.

Category 2 - Environmentally Toxic and Non-Persistent Substances The concentration of solid substances must not exceed 25 mg/Nm³ at the point of the exhaust. The concentration of a gas, vapour or haze of a substance, if exhausted at roof level, must not exceed 10 x the MAC-value specified in Table 3 at the point of the exhaust.

Category 3 - Mildly Toxic but Environmentally Persistent Substances. The concentration of solid substances in this category must not exceed 75 mg/Nm³ at the point of the exhaust. The concentration a gas, vapour or haze of a substance, if exhausted at roof level, must not exceed 10 x the MAC-value specified in Table 3 at the point of the exhaust.

Category 4 - Non-Toxic and Non-Persistent Substances The concentration of solid substances must not exceed 100 mg/Nm³ at the point of the exhaust. The concentration of gas, vapour or haze of a substance, if exhausted at roof level, must not exceed 10 X the MAC-value specified in Table 3 at the point of the exhaust.

3.3.2 Emission Standards

Table 1 Dioxins and Furans and other Substance

| | Emission Standard | |
|---|--|---|
| 1 | 2,3,7,8-Tetrachlorodibenzo-P-Dioxin, | should not exceed, at the point of the exhaust, 0.5 nanograms/Nm ³ in any emission |
| 2 | 1,2,3,7,8-Pentachlorodibenzo-P-Dioxin | |
| 3 | 1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin | |
| 4 | 1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin | |
| 5 | 1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin | |
| 6 | 2,3,7,8-Tetrachlorodibenzofuran | |
| 7 | 2,3,4,7,8-Pentachlorodibenzofuran | |
| 8 | 1,2,3,6,7,8-Hexachlorodibenzofuran | |

Table 2 Solid Substances

| Substance | Category | Air Quality guideline mg/m ³ | Compliance |
|---|----------|---|---|
| Ammonium compounds | 3 | 0.03 | solid substances should not exceed 2.5 mg/Nm ³ at the point of the exhaust |
| Antimony compounds | 2 | 0.01 | |
| Arsenic compounds | 1 | 0.001 | |
| Asbestos | 1 | 0.001 | |
| Barium sulfate | 3 | 0.03 | |
| (Other) Barium compounds | 2 | 0.01 | |
| Bitumen | 3 | 0.03 | |
| Bone-meal | 2 | 0.01 | |
| Cadmium | 1 | 0.001 | |
| Calcium hydroxide | 3 | 0.03 | |
| Calcium oxide | 3 | 0.03 | |
| Chromium and Chromium compounds | 1 | 0.001 | |
| Copper and Copper compounds | 2 | 0.01 | |
| Corn or flour dust | 4 | 0.03 | |
| Cyanides (Sodium and Calcium compounds) | 1 | 0.001 | |
| DDT and related compounds | 1 | 0.001 | |
| Fertilizer (phosphates) | 3 | 0.03 | |
| Lead and Lead compounds | 1 | 0.001 | |
| Magnesium compounds | 3 | 0.03 | |
| Nickel compounds | 1 | 0.001 | |
| Soot | 2 | 0.01 | |
| Tar | 2 | 0.01 | |
| Tobacco | 3 | 0.03 | |
| Wood dust | 2 | 0.01 | |
| Zinc and Zinc compounds | 2 | 0.01 | |

Table 3 Gas, Vapour or Haze Substance

| Substance | Category | MAC-value mg/m ³ | Scent limit mg/m ³ | Air Quality guideline mg/m ³ |
|----------------------|----------|--------------------------------|----------------------------------|--|
| Acetic acid | 2 | 25 | 0.25 | 0.25 |
| Acetic anhydride | 2 | 20 | - | 0.2 |
| Acetone | 4 | 2400 | 1 | 70 |
| Acetylene | 4 | - | - | - |
| Acrolein | 2 | 0.25 | 0.05 | 0.003 |
| Acrylonitrile | 1 | 9 | - | 0.001 |
| Ammonia | 2 | 18 | 0.1 | 0.18 |
| Benzene | 1 | 30 | 3 | 0.005 |
| Butane | 4 | 1430 | - | 40 |
| normal-Butanol | 2 | 150 | 0.2 | 1.5 |
| normal-Butyl acetate | 2 | 710 | 0.03 | 0.2 |
| Carbon monoxide | 4 | 29 | - | 1 |
| Carbon disulphide | 2 | 60 | 0.05 | 0.05 |
| Chlorine | 2 | 3 | 0.06 | 0.03 |
| Chloroform | 1 | 120 | 30 | 0.12 |
| Cyclohexane | 2 | 1050 | 2 | 10 |
| Cyclohexanone | 2 | 200 | 0.02 | 0.03 |
| 1,2 Dichloroethane | 1 | 200 | 17 | 0.2 |
| Dichloromethane | 1 | 350 | 4 | 0.35 |
| Diethyl ether | 2 | 1200 | - | 0.35 |
| Epichlorohydrin | 1 | 4 | - | 0.3 |
| Ethane | 4 | - | - | - |
| Ethanol | 4 | 1900 | 7 | 30 |
| Ethyl acetate | 2 | 1400 | 0.6 | 3 |
| Ethylene oxide | 2 | 90 | - | 0.9 |
| Formaldehyde | 2 | 1.5 | 0.07 | 0.015 |
| Furfuryl alcohol | 2 | 20 | - | 0.02 |
| normal-Heptane | 2 | 1600 | - | 16 |
| normal-Hexane | 2 | 360 | - | 3.6 |
| Hydrazine | 1 | 0.13 | - | 0.001 |
| Hydrochloric acid | 2 | 7 | 0.2 | 0.07 |
| Hydrogen | 4 | - | - | - |
| Hydrogen fluoride | 1 | 2 | - | 0.006 |
| Hydrogen phosphide | 2 | 0.4 | 0.1 | 0.004 |
| Hydrogen sulphide | 2 | 15 | 0.0001 | 0.001 |
| Isobutyl acetate | 2 | 700 | 0.6 | 0.3 |
| Isopropyl alcohol | 2 | 980 | 2 | 10 |
| Methane | 4 | - | - | - |
| Methanol | 2 | 260 | 4 | 2.6 |
| Methyl acetate | 2 | 610 | 0.002 | 0.005 |

| | | | | |
|-------------------------------------|---|------|-------|-------|
| Methyl bromide | 1 | 20 | - | 0.02 |
| Methylene bisphenylisocyanate (MDI) | 2 | 0.2 | - | 0.002 |
| Methyl ethyl ketone | 2 | 590 | 0.7 | 5 |
| Methyl formate | 2 | 250 | - | 2.5 |
| Methyl isobutyl ketone | 2 | 410 | 0.4 | 0.5 |
| Methyl methacrylate | 2 | 410 | 0.2 | 0.1 |
| alpha- Methylstyrene | 2 | 480 | 0.04 | 0.03 |
| Monochloroben zene | 1 | 350 | - | 0.35 |
| Naphthalene | 2 | 50 | 0.004 | 0.01 |
| Nitric oxide (NO) | 2 | 30 | - | 0.05 |
| Nitrous oxide (N ₂ O) | 2 | 4 | 0.1 | - |
| Ozone | 2 | 0.2 | 0.015 | 0.002 |
| normal-Pentane | 2 | 360 | - | 3.6 |
| Perchloroethyle | 2 | 240 | 12 | 2.4 |
| ne Phenol | 2 | 19 | 0.02 | 0.1 |
| Phosgene | 2 | 0.4 | 0.5 | 0.004 |
| normal-Propyl acetate | 2 | 840 | - | 8.4 |
| Propylene oxide | 2 | 240 | - | 2.4 |
| Prussic acid | 2 | 11 | - | 0.11 |
| Pyridine | 2 | 15 | 0.04 | 0.05 |
| Styrene monomer | 2 | 420 | 0.02 | 0.03 |
| Sulphur dioxide | 2 | 5 | 0.9 | 0.08 |
| Sulphuric acid | 2 | 1 | - | 0.01 |
| Toluene | 2 | 375 | 0.08 | 1 |
| Toluene diisocyanate (TDI) | 2 | 0.14 | - | 0.001 |
| 1,1,1- Trichloroethane | 1 | 1080 | - | 1 |
| 1,1,2- Trichloroethane | 2 | 45 | - | 0.045 |
| Trichloroethylene | 2 | 190 | - | 1.9 |
| Vinyl chloride | 1 | 8 | - | 0.008 |
| Xylene | 2 | 435 | 0.6 | 1 |

4.0 SCOPE OF WORKS

All work must comply with Australian Standard AS 3580, Local Department of Environment and EFL's Code of Environmental Practice;

1. Inspection and testing exhaust emission twice a year.
2. Submit detail report per EFL sites and;
3. Ensure full compliance to the Environment Management (waste disposal and recycling) regulation 2007.

4.1 Methodology

1. A point source of an air polluting substance should not, in isolation or combination with any other source of that substance, cause a concentration of that substance in the ambient air to exceed the emission standards set out in the tables 1,2 & 3.
2. The concentration of a point source of a substance may be calculated by using any of the following methods -
 - The relevant modelling protocol contained in Industrial Source Complex (ISC3) Dispersion Models (United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Emissions, Monitoring, and Analysis Division, USEPA-454/B-95-003a), or other equivalent model approved by the Department of Environment;
 - surface meteorological data from an appropriate source;
 - Mixing height data from an appropriate source;
 - Emission temperature and volume data;
 - The height of emission;
 - Any other relevant data or criteria as specified in the standard models stated above.

The service provider may provide EFL with an alternate methodology that is compliant to the Environment Management (waste disposal and recycling) regulations 2007.

5.0 PRICE SCHEDULE

Testing of Exhaust Emission for Stationery Plant at all EFL's Power Station

| Region | Location | Number of Plants | Price (Testing and Report) FJD (VIP) |
|------------------------|------------------------|-------------------------|---|
| Central | Kinoya Depot | 10 | |
| | Korovou Power Station | 2 | |
| | Rokobili Power Station | 5 | |
| | Deuba Power Station | 3 | |
| Ovalau | Levuka Power Station | 5 | |
| Western | Veda Power Station | 5 | |
| | Sigatoka Power Station | 9 | |
| | Nadi Power Station | 5 | |
| | Qeleloa Power Station | 3 | |
| | Rakiraki Power Station | 2 | |
| Northern | Cawaira Power Station | 12 | |
| | Savusavu Power Station | 5 | |
| Taveuni | Waiyevo Power Station | 2 | |
| Total FJD (VIP) | | | |

Notes:

1. Technical;
 - a. The bids must as per the Technical Specifications in the Tender Documents. Bids that do not conform to the technical Specification will be disqualified
 - b. Tenderers shall provide proof of successful completion within the stipulated delivery period of similar contracts undertaken in the past.
 - c. Documentary evidence to prove that the items offered comply with the Technical Specification must be provided.
 - d. Contractor to verify all drawing measurements onsite.
 - e. The Supplier/ Contractor shall provide a warrants for Goods or services for provided unless stated otherwise.
 - f. EFL'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 specifications
 - g. The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications
2. Financial;
 - a. In case of discrepancy between unit and total cost, the unit cost shall prevail
 - b. Any advance payment will require a bank guarantee. And this added cost will be beared by bidder
 - c. The currency used in the tender bid prices must be indicated in the tender bid
 - d. Prices shall be fixed during the Supplier's performance of the Contract and not subject to variation on any account.
 - e. EFL financial terms are applicable for these works.
 - f. For Foreign Supplier, any On-Shore work with incur a withholding Tax of 15% e.g. commissioning, training etc.
3. EFL Energy Fiji Limited uses Federation Internationale Des Ingenieurs Conseil (FIDIC) Contract template. General conditions of this contract shall be governed by it.

4. EFL have right to split award, tender may be awarded to multiple suppliers. And Minimum order quantity (MOQ) will not be acceptable.
5. All clarification request must be sent 5 days prior to the deadline for submission of bids
6. Price Schedule must be typed and stamped on the bid submission.
7. Failure to submit required documents may affect bid compliance. Failure to submit mandatory items as stated in Compliance Checklist will result in non-compliance.
8. Contractor shall provide all materials, tools equipment and labour necessary to perform works.
9. A detailed work plan to be provided with expected date for the works.
10. Installation & Commissioning works must incorporate all cost incur for this activity e.g. travel, accommodation, visa etc.
11. All Sub-contractors to be used for any part of the works are to be declared.

5.1 Compliance Checklist Declaration

I _____ of _____ located at _____ confirm that the bid submitted for the following tender MR 01/2021 : Testing of Exhaust Emission for Stationery Plant at all EFL's Power Station bid complies to the mandatory bidder submission as stated in Sub Clause 2.6;

| | Yes | No | Details |
|---|-----|----|---------|
| Commercial | | | |
| Price Schedule | | | |
| Company Profile | | | |
| Detailed Scope of Work/Supply | | | |
| Program [preferred Gantt Chart] (If Applicable) | | | |
| Payment Term | | | |
| Price Validity [preferred 60 days] | | | |
| Withholding Tax Inclusion (If Applicable) | | | |
| Technical | | | |
| Technical Specification of Equipment and methodology of testing | | | |
| Company's capabilities (resources, staff cv, etc.) | | | |
| Past Project/ Experience submission | | | |
| Test Reliability - Assurance on Test results | | | |
| Scope of Works | | | |
| Statement of Exclusion or Amendment for Tender Specification (if Any) | | | |
| | | | |

Note that these submissions are mandatory submission for a successful tender bid. This declaration must be signed and submit as well.

Name: _____

Position: _____

Company: _____

Sign Off: _____

Date: _____

5.2 Tender Check List

TENDER SUBMISSION CHECK LIST

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. Contact Person: _____

I declare that all the above information is correct.

Name: _____

Position: _____

Sign: _____

Date: _____

6.0 TENDER FORM

To: Jitendra Reddy
Unit Leader Strategic Procurement & Inventory Management
Energy Fiji Limited
2 Marlow Street,
Suva,
Fiji Islands
Phone: +679 3224 360/9992400
Email: JReddy@efl.com.fj

Sir,

1. Having examined the Tender Document, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply
.....
(Description of Goods) in conformity with the said Tender Document for the sum
.....
..... *(total tender amount in words and figures)* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.
2. We undertake, if our Tender is accepted, to deliver the Goods in accordance with the delivery schedule specified in the Schedule of Requirements.
4. We agree to abide by this Tender for a period of 90days from the date fixed for Tender opening under Clause 19 of the Instructions to Tenderers, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Until a formal Contract is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.
6. We understand that you are not bound to accept the lowest or any Tender you may receive.

Dated this: _____ day of _____ 201_.

[Signature] [In the capacity of]

Duly authorized to sign Tender for and on behalf of

TENDER SUBMISSION CHECK LIST

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

Tender Number _____

Tender Name _____

1. Full Company Name: _____

(Attach copy of Registration Certificate)

2. Director/Owner(s): _____

3. Postal Address: _____

4. Phone Contact: _____

5. Fax Number: _____

6. Email address: _____

7. Office Location: _____

8. TIN Number: _____

(Attach copy of the VAT/TIN Registration Certificate - Local Bidders Only)

9. Company Registration Number: _____

(Attach copy of the Business License)

10. FNPf Employer Registration Number: _____

(For Local Bidders only)

11. Contact Person: _____

I declare that all the above information is correct.

Name: _____

Position: _____

Sign: _____ Date: _____

Tender Submission - Instruction to bidders

It is mandatory for Bidders to upload a copy of their bid in the TENDER LINK Electronic Tender Box no later than 4.00pm (1600hrs Fiji Time) **Wednesday 3rd February, 2021.**

To register your interest and tender a response, view 'Current Tenders' at:

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

For further information contact The Secretary Tender Committee, by e-mail

JReddy@efl.com.fj

In additional, hard copies of the tender, one original and one copy must be deposited in the tender box located at the EFL Head Office, 2 Marlow Street, Suva, Fiji no later than Wednesday 3rd February, 2021 to be inserted - Addressed as

Tender - MR 01/2021 - Testing of Exhaust Emission for Stationary Power Plant at all EFL's Power Stations

The Secretary Tender Committee
Energy Fiji Limited
Head Office
Suva
Fiji

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

Tenders received after closing time 4.00pm (1600hrs Fiji Time) Wednesday 3rd February, 2021.

- Will not be considered.
- Lowest bid will not necessarily be accepted as successful bid.

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

The Tender Bids particularly the "Price" must be typed and not hand written.

(Tender Submission via email or fax will not be accepted)