



# **INFORMATION SHEET FOR PROCUREMENT OF ENGINE FOR 400kW GENERATOR SET(S)**

**Reference No.: FNK-I/IUL/2022/361**

Issued on 18<sup>th</sup> May 2022

Issued by:

Fenaka Corporation Limited

Male', Republic of Maldives

## Section I: Instruction to Bidders

| A. General                      |  |
|---------------------------------|--|
| <b>1. Scope of Bid</b>          | <p>1.1 Fenaka Corporation Limited requests quotations for 400kW generator set(s) Engine in accordance with <i>Section III, Technical Specifications</i></p> <p>1.2 It is in Fenaka Corporation Limited's discretion to cancel the bid invitation mentioned in 1.1 at any time.</p>   |
| <b>2. Eligible Participants</b> | <p>2.1 Local companies registered in Maldives are eligible to participate in the tender</p> <p>2.2 Foreign companies are eligible to participate in the tender only if the total bid value is above 2,500,000 Maldivian Rufiyaa.</p>   |
| B. Preparation of the Bid       |  |
| <b>3. Bid Prices</b>            | <p>3.1 The unit price of each item and the total price shall be clearly indicated in the quotation</p> <p>3.2 All items shall be quoted in the bid (please refer to <i>Section III, Technical Specifications</i> for the details of required items)</p> <p>3.3 Quotation shall separately indicate the additional charges such as freight charges and Insurance.</p> <p>3.4 The bidder shall submit quotation on CIF basis to Male' port</p>   |
| <b>4. Currency</b>              | 4.1 The bidder shall quote entirely in Maldivian Rufiyaa   |
| <b>5. Alternative Bids</b>      | 5.1 Bidders can submit a maximum of two (2) options  |
| <b>6. Validity of Bids</b>      | 6.1 Quotation shall remain valid for minimum sixty (60) days from the date of bid opening  |
| <b>7. Bid Security</b>          | <p>7.1 All bids should be accompanied with a bid security of USD 5,000 (Five Thousand US Dollars) or its equivalent in Maldivian Rufiyaa</p> <p>7.2 The bid security should be:</p> <ul style="list-style-type: none"> <li>- Original bank guarantee letter (or)</li> <li>- Bank guaranteed and stamped check (or)</li> <li>- An insurance policy from Maldives Monetary Authority (MMA) registered insurance company</li> </ul> <p>7.3 Any bid not accompanied by a Bid Security shall be rejected during bid opening</p> |

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|  | 7.4 | The bid security must be valid for a minimum of twenty (20) additional days beyond the validity of quotation   |
| <b>8. Technical Compliance</b>         | 8.1 | All relevant information including the brand shall be given to enable technical evaluation of quoted items   |
|  | 8.2 | The documents required for technical evaluation are: <ul style="list-style-type: none"> <li>- Technical data sheets of engine and the alternator</li> <li>- Datasheets specifying cooling system rated at ambient temperature 50°C</li> <li>- Certificate of Authenticity specifying manufacturer/assembler is an OEM or a genuine reputed international engine brand</li> </ul> |
|  | 8.3 | If the manufacturer or assembler is not the same as the bidder, a document indicating that manufacturer or assembler is willing to sell the generator set to the bidder is required  |
|  | 8.4 | Technical compliance letter will be required to enable technical evaluation  |
|  | 8.5 | If the goods do not comply with the requirements mentioned in <i>Section III, Technical Specifications</i> , the bid will be rejected during evaluation.   |
|  | 8.6 | Generator set should comply with our requirements, if not the bid will be rejected   |
| <b>9. Documents Comprising the Bid</b> | 9.1 | Quotation (inclusive of the delivery period and payment terms)   |
|  | 9.2 | Specifications of the offered product  |
|  | 9.3 | Certificate of Authenticity specifying that manufacturer / assembler is an OEM of a genuine reputed international engine brand   |
|  | 9.4 | Details of the company <ul style="list-style-type: none"> <li>- Company profile/background</li> <li>- Company registration certificate</li> <li>- GST registration certificate (for local bidders only)</li> <li>- TAX clearance report (6 months validity)</li> <li>- Contact details (name, designation, mobile number and e-mail address)</li> </ul>                          |
|  | 9.5 | Experience letters, if available <ul style="list-style-type: none"> <li>- Letters within past five (5) years</li> <li>- Relevant experience letters</li> <li>- Letters with project name and value</li> </ul>  |

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|   | 9.6 One (1) compact disc with original bid document scanned and written  |
|   | 9.7 Bids lacking the documents above are subjected to be rejected during the bid opening   |
| <b>10. Format of Bid</b>                    | 10.1 The Bidder shall submit two (2) sets of the bid document (1 original and 1 copy), enclosed separately in two envelopes and sealed with company stamp<br>10.2 All pages of the bid document shall be stamped and bound properly (excluding the bid security)   |
| <b>C. Bid Submission</b>                    |  |
| <b>11. Sealing and Marking Bid Document</b> | 11.1 The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK-I/IUL/2022/361)   |
| <b>12. Bid Opening</b>                      | 12.1 The bids will be opened on 29 <sup>th</sup> May 2022, 10:00am in the presence of bidders<br>12.2 Bids will be opened at:<br>Fenaka Corporation Limited<br>Hilaalee Magu, K. Male', Republic of Maldives<br>12.3 Bids received electronically will not be accepted   |
| <b>13. Bid Rejection</b>                    | 13.1 Bidders that arrive after bid submission deadline shall not be able to participate in the bid<br>13.2 Bidders that do not register for the tender are unable to participate in the bid opening<br>13.3 Bids lacking the documents mentioned in 9. <i>Documents Comprising the Bid</i> (except 9.5 <i>Experience letters</i> ) and that do not comply with 10. <i>Format of Bid</i> are subjected to be rejected |
| <b>D. Awarding of Contract</b>              |  |
| <b>14. Payment Terms</b>                    | 14.1 An advance will not be released for this project<br>14.2 Proposed payment terms should not be tied with submission of Bill of Lading.   |
| <b>15. Factory Acceptance Testing</b>       | 15.1 The generator(s) shall be fully tested at the manufacturer workshop in the presence of Client's appointees via video conferencing.<br>15.2 The testing shall be conducted at internationally accepted testing standards<br>15.3 The generator(s) shall be checked for dimension, the supplier shall provide dimension of the generator(s) during the virtual factory acceptance testing.                        |

- 15.4 Generator(s) should be tested to run at 25%, 50%, 75%, 100%, and 110% of rated load and power factor until the engine temperature stabilized for 30 minutes, and should check the protections below:
- Lub oil low level (alarm testing)
  - Lub oil low pressure (alarm testing)
  - Earth fault (alarm testing)
  - Over current (alarm testing)
  - High temperature (alarm testing)
  - Cooling system (alarm testing)
  - High voltage pressure (alarm testing)
  - All the functioning tests and routine tests should be done
- 15.5 All the protections should work properly, it should be examined for oil and coolant leaks, and it should be visually tested and secured
- 15.6 The remote radiator should operate continuously 100% in a 50-degree ambient temperature
- It should be designed with vertical air discharge remote radiator with motor and fan
  - It should include all the generator connection pipes, accessories, joints and diagrams
  - The radiator should be developed remotely from the engine providing an added flexibility cooling system, and to be installed at the desired location
  - It should be designed with lower power consumption, and high efficiency aero foil designed fans are used
  - It must be designed with lower noise levels
  - The radiator core should be formed using high efficiency fin profile
  - The thickness of connection pipes must be in a range of 2mm to 4mm
- 15.7 Recorded video clips while operating the units will not be accepted as virtual factory acceptance testing.

## Section II: Evaluation Criteria

**Proposal Cost:** 60 points for the lowest price

- $(\text{Lowest price} / \text{proposed price}) \times 60$

**Delivery:** 30 points for the lowest delivery period

- $(\text{Lowest delivery period} / \text{proposed delivery period}) \times 30$
- If the delivery period indicates 'ex-stock', it shall be taken same as the party offering the longest delivery period.

**Credit Period:** 10 points for the maximum credit period

- $(\text{Proposed credit period} / \text{longest credit period}) \times 10$

**Note:** Any discrepancy in technical details specified in quotation with technical specification document, the specification shall prevail.

## Section III: Technical Specifications

| Description                      | Quantity |
|----------------------------------|----------|
| Engine for 400kW Generator Sets. | 02       |

\*Please note that the below specifications are for one unit only.

### Information of Cummins Engine

Cummins KTA38-G2 generator drive new engine with radiator suitable for coupling Stamford alternator model HCI 543D

Cylinder Block: Cast iron 6 Cylinder.

Displacement: 18.9L

Gross Engine output/Speed: 880kW/1180HP/1500rpm

Aspiration: Turbocharged, Aftercooled

Fuel system: Direct injection, EFC governor

Complete with fan drive and fan

Electric system/Starting Voltage: 24V DC

Battery Charging Alternator: 35 Amp

Flywheel Dimensions: SAE 0

Air Cleaner Type: Dry replaceable element with restriction indicator

Fuel Filters: Dual spin-on paper element fuel filters with water separator

Lube Oil Filter: Spin-on full flow filter

(L 2600 X W1344 X H 1773)