



INFORMATION SHEET FOR PROCUREMENT OF 600kW GENERATOR SET

Reference No.: FNK-I/IUL/2020/021

Issued on: 26th January 2020

Issued by:

Fenaka Corporation Limited

Male', Republic of Maldives

Section I: Instruction to Bidders

A. General	
1. Scope of Bid	1.1 Fenaka Corporation Limited requests quotations for a 600kW generator set in accordance to <i>Section III, Technical Specifications</i>
2. Eligible Participants	2.1 Local companies registered in Maldives are eligible to participate in the tender 2.2 Foreign companies are eligible to participate in the tender only if the total bid value is above 2,500,000 Maldivian Rufiyaa.
B. Preparation of the Bid	
3. Bid Prices	3.1 The unit price of each item and the total price shall be clearly indicated in the quotation 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) 3.3 Quotation shall separately indicate the additional charges such as freight charges, insurance, etc. 3.4 The bidder shall submit quotation on CIF basis to Male' port
4. Currency	4.1 The bidder shall quote entirely in Maldivian Rufiyaa or US Dollars
5. Alternative Bids	5.1 Bidders can submit a maximum of two (2) options
6. Validity of Bids	6.1 Quotation shall remain valid for minimum sixty (60) days from the date of bid opening

<p>7. Bid Security</p>	<p>7.1 All bids should be accompanied with a bid security of USD 3,000 (Three 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"> - Original bank guarantee letter (or) - Bank guaranteed and stamped check (or) - An insurance policy from Maldives Monetary Authority (MMA) registered insurance company <p>7.3 Any bid not accompanied by a Bid Security shall be rejected during bid opening</p> <p>7.4 The bid security must be valid for a minimum of twenty (20) additional days beyond the validity of quotation</p>
<p>8. Technical Compliance</p>	<p>8.1 All relevant information including the brand shall be given to enable technical evaluation of quoted items</p> <p>8.2 The documents required for technical evaluation are:</p> <ul style="list-style-type: none"> - Technical data sheets of engine and the alternator - Datasheets specifying cooling system rated at ambient temperature 50°C - Certificate of Authenticity specifying manufacturer/assembler is an OEM or a genuine reputed international engine brand <p>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</p> <p>8.4 Technical compliance letter will be required to enable technical evaluation</p>

	<p>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.</p> <p>8.6 Generator set should comply with our requirements, if not the bid will be rejected</p>
<p>9. Documents Comprising the Bid</p>	<p>9.1 Quotation (inclusive of the delivery period and payment terms)</p> <p>9.2 Specifications of the offered product</p> <p>9.3 Certificate of Authenticity specifying that manufacturer / assembler is an OEM of a genuine reputed international engine brand</p> <p>9.4 Details of the company</p> <ul style="list-style-type: none"> - Company profile/background - Company registration certificate - GST registration certificate (for local bidders only) - TAX clearance report (6 months validity) - Contact details (name, designation, mobile number and e-mail address) <p>9.5 Experience letters, if available</p> <ul style="list-style-type: none"> - Letters within past five (5) years - Relevant experience letters - Letters with project name and value <p>9.6 One (1) compact disc with original bid document scanned and written</p> <p>9.7 Bids lacking the documents above are subjected to be rejected during the bid opening</p>
<p>10. Format of Bid</p>	<p>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</p>

	10.2 All pages of the bid document shall be stamped and bound properly (excluding the bid security)
C. Bid Submission	
11. Sealing and Marking Bid Document	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/2020/021)
12. Bid Opening	12.1 The bids will be opened on 06 th February 2020, 11:00am in the presence of bidders 12.2 Bids will be opened at: Fenaka Corporation Limited Hilaalee Magu, K. Male’, Republic of Maldives 12.3 Bids received electronically will not be accepted
13. Bid Rejection	13.1 Bidders that arrive after bid submission deadline shall not be able to participate in the bid. 13.2 Bidders that do not register for the tender are unable to participate in the bid opening 13.3 Bids lacking the documents mentioned in 9. Documents Comprising the Bid (except 9.5 Experience letters) and that do not comply with 10. Format of Bid are subjected to be rejected
D. Awarding of Contract	
14. Payment Terms	14.1 An advance will not be released for this project
15. Factory Acceptance Testing	15.1 All generators 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)

	<ul style="list-style-type: none"> - 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 <p>15.2 All the protections should work properly, it should be examined for oil and coolant leaks, and it should be visually tested and secured</p> <p>15.3 The remote radiator should operate continuously 100% in a 50 degree ambient temperature</p> <ul style="list-style-type: none"> - 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
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Section II: Evaluation Criteria

Proposal Cost: 70 points for the lowest price

- $(\text{Lowest price} / \text{proposed price}) \times 70$

Delivery: 20 points for the lowest delivery period

- $(\text{Lowest delivery period} / \text{proposed delivery period}) \times 20$
- 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

- $(\text{Proposed credit period} / \text{longest credit period}) \times 10$
- No points will be given for payment terms if the supplier requests for Letter of Credit (LC)

Section III: Technical Specifications

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

S/N:	Description	Unit	Qty
1	<p>600 kW prime rated diesel generator set with parameters 0.8 P.F, 415kV, 3 Phase, 4 wires, 50 Hz at 1500 r.p.m. Powered by Internationally reputed brand engine coupled with internationally reputed brand Alternator.</p> <p>The Generator set shall be powered by a Branded engine origin or assembled/manufactured by an Original Company's Licenced OEM manufactured/assembler.</p> <p>The engine must produce a mechanical power output (kW_m) which should meet the required electric power (kW_e) of 600kW and must be coupled with a 600kW Alternator with pre-installed Droop CT and a control connection box.(termination box to connect control cables and power cables)</p> <p>Engine to be complete with following auxilliary items :</p> <ul style="list-style-type: none"> • Heavy electrical flywheel • SAE flywheel housing • Air filters, Lubricating Oil Filters, Fuel Filters and all other such filter required for operation of the engine • Low lubricating oil pressure switch • High engine temperature switch • lub oil sender • Water Temperature Sender • All necessary items to run and to protect the engine • Starting equipment fitted to engine, consisting of : <ul style="list-style-type: none"> • 24 Volt charging alternator (Brushless) • 24 Volt starting motor • Fuel Shut-off solenoid • Heavy duty lead acid batteries, supplied in a dry charged condition • Governing System The engine to be fitted with a close tolerance Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wiring • Cooling Equipment Cooling equipment compromising a heavy-duty tropical radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be electroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable. Radiator has to be mounted on vibration mounts with enough strength to withstand the radiator and vibrations. <p>Radiator must be designed to adequately cool the generator at an ambient temperature of 50°C</p> <ul style="list-style-type: none"> • Exhaust system 450 mm of stainless steel bellow type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer. • Alternator 	1	No



Generator set should carry a warranty of one year from the date of commisioning	1	Lot
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Documents Required for technical evaluation

- technical data sheets of engine
- technical data sheets of Alternator
- datasheets specifying cooling system rated at ambient temperature 50°C
- Certificate of Authenticity specifying manufacturer /Assembler is an OEM of a genuine reputed international Engine Brand

Note : Proposal that do not conform to the given technical specification shall be rejected.

Prepared and checked by :

Technical Services & Green Energy Department