



INFORMATION SHEET FOR PROCUREMENT OF 1000kW GENERATOR SET

Reference No.: FNK-I/IUL/2020/083

Issued on: 17th March 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 1000kW generator set in accordance to <i>Section III, Technical Specifications</i>
	1.2 It is in Fenaka Corporation Limited’s discretion to cancel the bid invitation mentioned in 1.1 at any time.
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
7. Bid Security	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>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>12.2 Bids will be opened at: Fenaka Corporation Limited Hilaalee Magu, K. Male', Republic of Maldives</p> <p>12.3 Bids received electronically will not be accepted</p>
13. Bid Rejection	<p>13.1 Bidders that arrive after bid submission deadline shall not be able to participate in the bid.</p> <p>13.2 Bidders that do not register for the tender are unable to participate in the bid opening</p> <p>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</p>
D. Awarding of Contract	
14. Payment Terms	<p>14.1 An advance will not be released for this project</p>
15. Factory Acceptance Testing	<p>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:</p> <ul style="list-style-type: none"> - 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 <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 <p>15.4 Bidders shall provide an extended warranty of 01 year in case the Factory Acceptance Test cannot be conducted</p>
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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)

	<p>The alternator shall be brushless revolving type alternator, having class H insulation on both the stator and field windings. It shall be built and rated to BS 5000, tropically impregnated with voltage regulation being in the order of +/- 1.5% from no load to full load under the steady state conditions assuming a speed variation not exceeding 4% on the engine. Anti-Condensation Coil to be fitted in the Alternator. The output voltage of alternator should be 415V.</p> <p>• Generator arrangement and drive</p> <p>The simplex type base plate is of heavy duty rolled steel constructed, bolted and electrically welded, drilled on the underside to allow the fitting of foundation bolts. The engine and the alternator are to be mounted on a base plate and vibration mounts to be mounted underside of the base plate. The vibration mounts are to be supplied as loose item.</p> <p>• Finishing</p> <p>After assembling the genset zinc coated self-etching primer should be applied to the complete set.</p>		
<p>1.2 Fuel system</p>	<p>A fuel day tank of 12 hours capacity complete with level indicator, drain plug, filler, fuel return with fuel outlet connections and a fuel filter fitted with outlet connection is to be mounted. These mounts are to be supplied as loose item. All necessary fittings to be supplied in conformity with fuel flow diagram.</p>	<p>1</p>	<p>No</p>
<p>1.3 Factory testing</p>	<p>The generator should be fully tested at the manufacturer workshop in the presence of client/apointees to check the ratings, overload, functional tests on a dummy load prior to dispatch <i>in case the bidder is unable to provide factory test</i> as required the bidder shall provide an extended warranty of one extra year than mentioned in item no 10 of this document.</p>	<p>1</p>	<p>No</p>
<p>1.4 Literature and drawings consisting of :</p>	<ul style="list-style-type: none"> • 1 No x Manual on How to handle the generation equipment • 1 Nos x Electrical wiring diagram • 1 No x Engine operation and maintenance manual • 1 No x Engine parts catalogue • 1 No x Generator parts catalogue • 1 No x Generator operation and maintenance manual • 1 No x Generator AVR manual • 1 No x Governor control unit manual • 1 No x Engine shop manual 	<p>1</p>	<p>Lot</p>
<p>1.5 Accessories</p>	<p>The Components shall meet the British Standard and ISO standards. Items are for the above mentioned generator sets.</p>		
<p>1.5.1</p>	<p>Primary silencer barrel (to match engine exhaust)</p>	<p>2</p>	<p>No</p>
<p>1.5.2</p>	<p>Secondary silencer barrel (to match engine exhaust)</p>	<p>2</p>	<p>No</p>
<p>1.5.3</p>	<p>3m Exhaust pipe dia (to match engine exhaust)</p>	<p>4</p>	<p>No</p>
<p>1.5.4</p>	<p>Elbows having dia (to match the engine exhaust)</p>	<p>6</p>	<p>No</p>
<p>1.5.5</p>	<p>Flanges having dia (to match the engine exhaust)</p>	<p>8</p>	<p>No</p>
<p>1.5.6</p>	<p>Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2 washers, 1 spring washer 2 Nuts)</p>	<p>1</p>	<p>Lot</p>
<p>1.5.7</p>	<p>Split type rockwool insulation lagging suitable for 75 to 125mm dia. Exhaust pipes. The lagging shall be covered with High Quality Aluminium foil.</p>	<p>1</p>	<p>Lot</p>
<p>1.6 Warranty</p>			



Generator set should carry a warranty of one year from the date of commissioning	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 Assembler is a Cummins OEM

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

Prepared and checked by:

Technical Services & Green Energy Department

