

# INFORMATION SHEET FOR PROCUREMENT OF 600kW GENERATOR SET

Reference No.: FNK-I/IUL/2022/429

Issued on  $14^{\mbox{th}}$  June 2022

Issued by: Fenaka Corporation Limited Male', Republic of Maldives





## **Section I: Instruction to Bidders**

1. Scope of Bid       1.1       Fenaka Corporation Limited requests quotations for 600kW generator s accordance with Section III, Technical Specifications         1.2       It is in Fenaka Corporation Limited's discretion to cancel the bid invitementioned in 1.1 at any time.         2. Eligible       2.1       Local companies registered in Maldives are eligible to participate in the teder only if the tota value is above 2,500,000 Maldivian Rufiyaa.         B. Preparation of the Bid       3.1       The unit price of each item and the total price shall be clearly indicated in quotation         3.2       All items shall be quoted in the bid (please refer to Section III, Technical Specifications for the details of required items)         3.3       Quotation shall separately indicate the additional charges such as frecharges and Insurance.         3.4       The bidder shall quote entirely in Maldivian Rufiyaa         5. Alternative Bids       5.1       Bidders can submit a maximum of two (2) options	ation ender
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5. Alternative Bids       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	f bid
opening	
<b>7. Bid Security</b> 7.1 All bids should be accompanied with a bid security of USD 3,000 (T	'hree
Thousand US Dollars) or its equivalent in Maldivian Rufiyaa	
7.2 The bid security should be:	
- Original bank guarantee letter (or)	
- Bank guaranteed and stamped check (or)	
- An insurance policy from Maldives Monetary Authority (MMA) regist	tered
insurance company	
7.3 Any bid not accompanied by a Bid Security shall be rejected during bid ope	

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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
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:
	- 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
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 Section III,
	Technical Specifications, the bid will be rejected during evaluation.
8.6	Generator set should comply with our requirements, if not the bid will be
	rejected
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
	- 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)
9.5	Experience letters, if available
	- Letters within past five (5) years
	- Relevant experience letters
	- Letters with project name and value
_	8.1 8.2 8.3 8.4 8.5 8.6 9.1 9.2 9.3 9.4

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	0.6	One (1) compact disc with original hid document scanned and written
	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
10. Format of Bid	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
	10.2	All pages of the bid document shall be stamped and bound properly (excluding
		the bid security)
C. Bid Submiss	ion	
11. Sealing and	11.1	The bid document shall be sealed properly in an envelope clearly marked
Marking Bid		'ORIGINAL' or 'COPY', with the name of the company and the tender
Document		reference number (FNK-I/IUL/2022/429)
12. Bid Opening	12.1	The bids will be opened on 23 <sup>rd</sup> June 2022, 1300hrs 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	Contr	act
14. Payment	14.1	An advance will not be released for this project
Terms	14.2	Proposed payment terms should not be tied with submission of Bill of Lading.
15. Factory	15.1	The generator(s) shall be fully tested at the manufacturer workshop in the
Acceptance		presence of Client's appointees via video conferencing.
Testing	15.2	The testing shall be conducted at internationally accepted testing standards
	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.
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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	Recorded video clips while operating the unit(s) will not be accepted as virtual
	Factory Acceptance Testing.

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### Section II: Evaluation Criteria

Proposal Cost: 60 points for the lowest price

- (Lowest price / proposed price) x 60

Delivery: 30 points for the lowest delivery period

- (Lowest delivery period / proposed delivery period) x 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

- (Proposed credit period / longest credit period) x 10

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

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# **Section III: Technical Specifications**

Description		Quantity
600kW Genera	ator Set	01

ŧ	Description	Unit	Qt
L	600 kW prime rated diesel generator set (open type) with parameters 0.8 P.F, 415 Volts, 3 Phase, 4 wires, 50 Hz at 1500 r.p.m. The Generator set shall be powered by a branded an Original Company's Licensed OEM manufactured.	1	No
	The engine must produce a mechanical power output (kW) which should meet the required electric power (kW) of 600kW and must be coupled with a Stamford 600kW Alternator with pre-installed Droop CT and remote mounted control panel. And should be an internationally recognized reputed brand The controller should be Deep-sea model: 8810 / 8860 engine controller. Motorized TP, 1000A ACB c/w UVT Coil AC 230 V, brand "MERLIN GERIN") or		
	equivalent.		
	Engine to be complete with following auxiliary items :		
	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		
	<ul> <li>All necessary items to run and to protect the engine</li> </ul>		
	<ul> <li>Starting equipment fitted to engine, consisting of :</li> </ul>	- 1	
	<ul> <li>24 Volt charging alternator (Brushless)</li> </ul>		
	24 Volt starting motor		
	Fuel Shut-off solenoid		
	Heavy duty lead acid batteries, supplied in a dry charged condition		
	Governing System		
- 3	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.		
	Radiator must be designed to adequately cool the generator at an ambient temperature of 50°C		
	Exhaust system		
	450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer.		

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	Alternator		ř.
	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.  • Generator arrangement and drive		1
	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.		-
	• Finishing After assembling the genset zinc coated self-etching primer should be applied		
	to the complete set.		-
1.2	Fuel system	1	No
	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.	95	
1.3	The generator should be fully tested at the manufacturer workshop in the presence of client/appointees to check the ratings, overload, functional tests on a dummy load prior to dispatch in case the bidder is unable to provide factory test as mentioned, the bidder shall provide an extended warranty of one extra year.		
1.4	Literature and drawings consisting of : (Optional) <ul> <li>1 No x Manual on How to handle the generation equipment</li> <li>1 No x Electrical wiring diagram</li> <li>1 No x Engine operation and maintenance manual</li> <li>1 No x Engine parts catalogue</li> </ul>	1	Lot
	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		
1.5	1 No x Engine shop manual Accessories		
	The Components shall meet the British Standard and ISO standards. Items are for the above mentioned generator sets.		
	Primary silencer barrel (to match engine exhaust)	2	No
	Secondary silencer barrel (to match engine exhaust)	2	No
	3m Exhaust pipe dia ( to match engine exhaust)	4	No
	Elbows having dia (to match the engine exhaust)	6	No
	Flanges having dia (to match the engine exhaust)	12	No
	Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2 washers,1spring washer 2 Nuts) Split type rockwool insulation lagging suitable for 75 to 125mm dia. Exhaust pipes. The lagging shall be covered with High Quality Aluminum foil.		Lot Lot
	pipes. The rugging shall be covered with High Quality Aluminum Jon.		

#### **Documents required for technical Evaluation**

- Technical data sheet of generator.
- Technical data sheet of Dynamo.
- Data sheet specifying cooling system rated ambient temperature 50 degree.
- > Certificate of Authenticity specifying Assembler or Manufacture.

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