

INFORMATION SHEET FOR PROCUREMENT OF 1000kW GENERATOR SET

Reference No.: FNK-I/IUL/2023/100

Issued on 10th April 2023

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 1000kW generator set(s) in
		accordance with Section III, Technical Specifications
	1.2	It is in Fenaka Corporation Limited's discretion to cancel the bid invitation
		mentioned in 1.1 at any time.
2. Eligible	2.1	Local companies registered in Maldives are eligible to participate in the tender
Participants	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. Preparati	on 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 Section III, Technical
		Specifications for the details of required items)
	3.3	Quotation shall separately indicate the additional charges such as freight charges
		and Insurance.
	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
5. Alternative	5.1	Bidders can submit a maximum of two (2) options
Bids		
6. Validity of	6.1	Quotation shall remain valid for minimum sixty (60) days from the date of bid
Bids		opening
7. Bid Security	7.1	All bids should be accompanied with a bid security of USD 1,000 (One 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) registered
		insurance company
	7.3	Any bid not accompanied by a Bid Security shall be rejected during bid opening

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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. Technical	8.1	All relevant information including the brand shall be given to enable technical
Compliance		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. Documents	9.1	Quotation (inclusive of the delivery period and payment terms)
Comprising	9.2	Specifications of the offered product
the Bid	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
	9.6	One (1) compact disc with original bid document scanned and written

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	9.7	Bids lacking the documents above are subjected to be rejected during the bid
		opening
10. Format of	10.1	The Bidder shall submit two (2) sets of the bid document (1 original and 1 copy),
Bid		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 Subm	nission	
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 reference
Document		number (FNK-I/IUL/2023/100)
12. Bid	12.1	The bids will be opened on 24 th April 2023, 11:00am in the presence of bidders
Opening	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	13.1	Bidders that arrive after bid submission deadline shall not be able to participate in
Rejection		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	g of Co	ontract
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 presence
Acceptance		of Client's appointees.
Testing	15.2	The testing shall be conducted at internationally accepted testing standards
	15.3	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:

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	- 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
15.4	All the protections should work properly, it should be examined for oil and coolant
	leaks, and it should be visually tested and secured
15.5	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
15.6	Two (2) engineers from Fenaka Corporation Limited shall carry out necessary
	inspection and testing of equipment prior to shipment in supplier's warehouse to
	validate the items
15.7	The bidder shall arrange airfare, transportation, stipend (as per the Client's policy),
	accommodation and lodging for two of Client's engineers for the testing (minimum
	two days for testing)

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Section II: Evaluation Criteria

Proposal Cost: 70 points for the lowest price

- (Lowest price / proposed price) x 70

Delivery: 20 points for the lowest delivery period

- (Lowest delivery period / proposed delivery period) x 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

- (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

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

Information of 1000 kW Generator Set K.Hura

Ħ	Description	Unit	Qty
1	1000 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 1000kW and must be coupled with a 1000kW Stamford Alternator with pre-installed Droop CT and remote mounted Set mounted control panel. The controller should be Deep-sea model: 8810 / 8860 engine controller. Motorized TP, 1600A ACB c/w UVT Coil AC 230 V, brand "SCHNEIDER") 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 all pressure switch High engine temperature switch		
	 Iub oil sender Water Temperature Sender 		
	All necessary items to run and to protect the engine Starting equipment fitted to engine, consisting of : 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 "W "type remote radiator, With fan driven by the Electric Motor (ABB or Equivalent) The radiator core should be electroplated with silver solder tin plated to prevent early failure due to corrosion.		
	Radiator must be designed to adequately cool the generator at an ambient temperature of 50°C		
	Coupon blue coated radiator is acceptable.		
	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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1	Alternator	ŀ	1
	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		
	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.	I	
	Finishing	ĺ	
!	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.		
1.3	Factory testing 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.	1	No
1.4	Literature and drawings consisting of : (Optional) 1 No x Manual on How to handle the generation equipment 1 No 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	1	Lot
1.5	Accessories The Components shall meet the British Standard and ISO standards. Items are for the below mentioned generator sets. Primary silencer barrel (to match engine exhaust) Secondary silencer barrel (to match engine exhaust) 3m Exhaust pipe dia (to match engine exhaust) Elbows having dia (to match the engine exhaust) Flanges having dia (to match the engine exhaust) Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2 washers, 1spring washer 2 Nuts)	Lot	Lot
	Split type Rockwool insulation logging suitable for 75 to 125mm dia. Exhaust pipes. The logging		
1.6	shall be covered with High Quality Aluminum foil. Warranty		

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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.
- The engine should be an international recognized brand.

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