

INFORMATION SHEET FOR PROCUREMENT OF 1600kW GENERATOR SET

Reference No.: FNK-I/IUL/2023/059

Issued on 28th February 2023

Issued by:

Fenaka Corporation Limited Male', Republic of Maldives





Section I: Instruction to Bidders

	1.1	Fenaka Corporation Limited requests quotations for 1600kW generator set in accordance with Section III, Technical Specifications			
1	.2	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	2.1	Local companies registered in Maldives are eligible to participate in the tender			
Participants 2	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	3.1 The unit price of each item and the total price shall be clearly indicated in the				
		quotation			
3	3.2	All items shall be quoted in the bid (please refer to Section III, Technical			
		Specifications for the details of required items)			
3	3.3	Quotation shall separately indicate the additional charges such as freight			
		charges and Insurance.			
3	3.4	The bidder shall submit quotation on CIF basis to Male' port			
4. Currency 4	4.1	The bidder shall quote entirely in Maldivian Rufiyaa			
5. Alternative Bids 5	5.1	Bidders can submit a maximum of two (2) options			
6. Validity of Bids 6	5.1	Quotation shall remain valid for minimum sixty (60) days from the date of bid			
		opening			
7. Bid Security 7	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			
7	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	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 the	9.2	Specifications of the offered product
Bid	d 9.3 Certificate of Authenticity specifying that manufacturer / assembler is an	
		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
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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		
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 Submissi	on			
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/2023/059)			
12. Bid Opening	12.1	The bids will be opened 09 th March 2023,11:00am 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 b			
	opening			
13.3 Bids lacking the documents mentioned in 9. Documents Comprising the				
		(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.		
Testing	15.2	The testing shall be conducted at internationally accepted testing standards		

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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:
	- 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

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I	 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)

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

Description	Quantity		
Generator Set 1600KW	01		

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

Information of 1600 kW Generator Set L.Gan

#	Description	Unit	Qty
1		1	No
	Diesel Generator set 1600 kW prime rated (open type) with parameters 0.8 P.F.		
	415Volts, 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.		
	The engine must produce a mechanical power output (kW) which should meet the		
	required electric power (kW) of 1600kW and must be coupled with a 1600kW Stamford		
	Alternator with pre-installed Droop CT and Control connection(terminal box to connect)		
	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		
	lube 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 type 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.		
	coupon one couceo rutator 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	Ĩ.	1		
	The alternator shall be brushless revolving type alternator (0.8 P.F, 415kV, 3 Phase, 4 wires, 50 Hz), 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 Coll to be fitted in the Alternator.				
	Generator arrangement and drive				
	The simplex type base plate is of heavy duty rolled steel constructed, balted and electrically welded, drilled on the underside to allow the fitting of foundation balts. 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 capacity 4000 liters 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) Split type Rockwool insulation lagging suitable for 75 to 125mm dia. Exhaust pipes. The lagging	Lot	Lot		
1.6	shall be covered with High Quality Aluminum fail. Warranty		<u>.</u>		
	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

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