

INFORMATION SHEET FOR PROCUREMENT OF 1200kW GENERATOR SET(S)

Reference No.: FNK-I/IUL/2023/101

Issued on 10th April 2022

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 1200kW 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. 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 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 2,000 (Two 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 technic		
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 a			
		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 Submission						
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/2023/101)				
12. Bid	12.1	The bids will be opened on 25 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					
		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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CORPORATION LIMITED	Maldives
	- 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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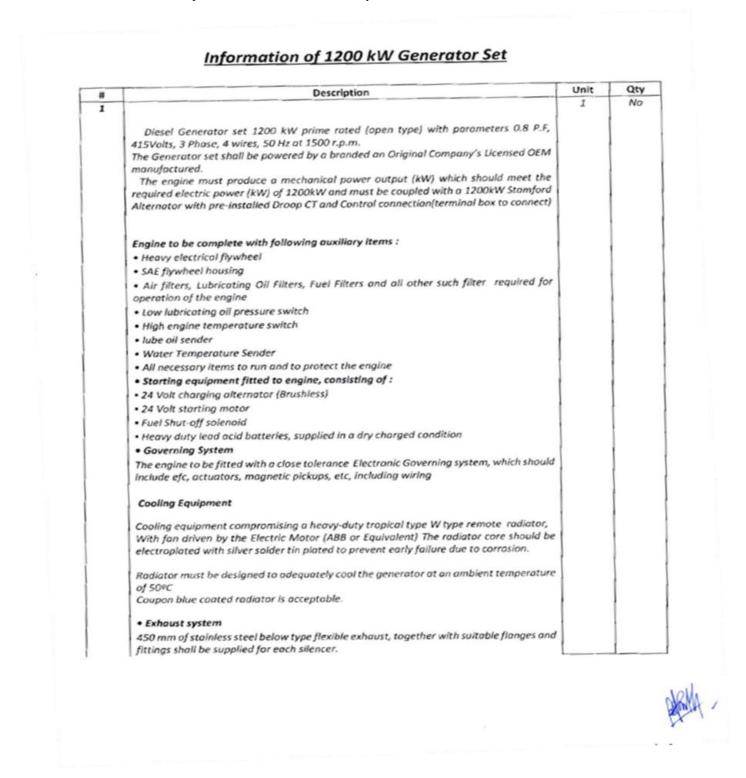






Section III: Technical Specifications

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



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Alternator

	Alternator	1	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, trapically 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.	1	
	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.		
	• Finishing	1	
	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	1	No
	The generator should be fully tested at the manufacturer workshop in the presence of client/appaintees to check the ratings, overload, functional tests on a dummy load prior to dispatch,		
1.4	Literature and drawings consisting of : (Optional)		-
	 1 No x Manual on How to handle the generation equipment 	1	Lot
	1 No x Electrical wiring diagram		I
	 1 No x Engine operation and maintenance manual 		1
	 1 No x Engine parts catalogue 		
	 1 No x Generator parts catalogue 		I
	 1 No x Generator operation and maintenance manual 		1.
	 1 No x Generator AVR manual 		
	 1 No x Governor control unit manual 		
.5	1 No x Engine shop manual 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)	Lot	
	Secondary silencer barrel (to match engine exhaust)		
	3m Exhaust pipe dia (to match engine exhaust)		
- 1	Elbows having dia (to match the engine exhaust)		
- 1	Flanges having dia (to match the engine exhaust)		
	Bolts. Nuts and Washers for the Flanger (Fach and the Wind the test		
	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
6	wusher z Mutsj		Lot

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Documents required for technical Evaluation

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- > 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.
- > Technical specification of remote Radiator.

TECHNICAL SPECIFICATIONS OF W TYPE REMOTE RADIATOR

The cooling equipment consisting W type radiator with heavy-duty structure, suitable for tropical weather, and equipped with vertical air flow fans driven by electric motor .Standard IP55 or IP65 (7.5HP) (ABB or equivalent). With VCD

Cooling circuit and pipe line should be designed for two separate circuits for jacket water and after cooler water of the engine. Primary FCW-140(LT+HT) Secondary FCW-180.

All installation accessories must be BS standard and include seamless pipes, gauges, gate valves, flanges, bolts elbows and expansion tank.

The radiator must be designed and sized to adequately cool CUMMINS KTA50-G8 engine and meet the specs below.

Cores	Tin Coated			
Motor controller	Automatic			
Low Coolant Level Protection	Engine Shutdown			
Air Flow	Vertical			
Ambient Temperature	50C			
Inlet Coolant Temperature	900			
Outlet Coolant Temperature	84C			
Heat Rejection	676 kW			
Maximum Coolant Friction Head	69 kPa			
Maximum Static Head	18.3m			
Electric Motor	3ph, 400V, 5.6kW			
Motor Starter	Soft Starter			
Motor Protection	IP 54			
Insulation	Class F			
No. of Fans	3			
Noise Level	75dB (A) @ 7m			
Overall Dimensions (L x W x H),	4660 x 2030 x 2495mm			

Cooling water pipe line should be designed to install at 6meters distance from the engine.



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