

INFORMATION SHEET FOR PROCUREMENT OF 2000kW GENERATOR SET

Reference No.: FNK-I/IUL/2021/015

Issued on 07th January 2021

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 an		
		2000kW generator set in accordance to 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		
Participants		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 B	id		
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, 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		
		10,000 (Ten Thousand US Dollars) or its equivalent in		
		Maldivian Rufiyaa		
	7.2	The bid security should be:		

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		- 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
	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
Compliance		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

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Comprising the Bid 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 email 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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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)

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C. Bid Submission							
11. Sealing and							
Marking Bid		clearly marked 'ORIGINAL' or 'COPY', with the name of					
Document		the company and the tender reference number (FNK-					
		I/IUL/2021/015)					
12. Bid Opening	12.1	The bids will be opened on 19 th January 2021, 10:00am 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 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 Co	ntract						
14. Payment Terms	14.1	An advance will not be released for this project					
	14.2	5% retention will be released 01 month after expiry of the					
		warranty period and after issuing of certificate of completion.					
	14.3	All necessary repairs shall be done to the satisfaction of the					
		Client's consultant or engineers before this payment is					
		released.					
15. Factory	15.1	The generator shall be fully tested at the manufacturer					
Acceptance		workshop in the presence of Client's appointees via video					
Testing		conferencing.					

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- 15.2 The testing shall be conducted at internationally accepted testing standards
- 15.3 The generator shall be checked for dimension, the supplier shall provide that dimensions of the panel during the virtual factory acceptance testing.
- 15.4 Generator 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
- 15.3 All the protections should work properly, it should be examined for oil and coolant leaks, and it should be visually tested and secured
- 15.4 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

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- 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













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
- No points will be given for payment terms if the supplier requests for Letter of Credit (LC)















Section III: Technical Specifications

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

SPECIFICATION FOR 2000kW GENERATOR SET

S/N:	Description	Unit	Qty
1		1	No
•	2000kW prime rated diesel generator set with parameters 0.8 P.F, 11kV, 3 Phase, 4	+	140
	wires, 50 Hz at 1500 r.p.m. Powered by MTU/MANN/CATERPILLAR or equivalent		
	(internationally reknowned Brand of) engine coupled with Stamford Alternator with		
	rated output power 2000kW at voltage 11kV .		
	The Generator set shall be powered by a MTU/MANN/CATERPILLAR or equivalent		
	engine and assembled/manufactured by an Original Licenced OEM		
	manufacturer/assembler.		
	The engine must produce a mechanical power output (kW _m) which should meet the		
	required electric power (kW _e) of 2000kW and must be coupled with a 2000kW		
	alternator with pre-installed Droop CT and remote mounted control panel.		
	Generator set controller shall be Deepsea 8810		
	Engine to be complete with following auxilliary 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		
	All necessary items to run and to protect the engine		
	Starting equipment fitted to engine, consisting of :		
	24 Volt charging altenator (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 remote radiator,		
	with fans driven by Electric Motors (ABB or equivalent) . The radiator core		
	should be elecroplated with silver solder tin plated to prevent early failure		
	due to corrosion. Coupon plated radiators are acceptable.		
	Radiator must be designed to adequately cool the generator at an ambient		
	temperature of 50°C		
	Exhaust system		
	450 mm length of stainless steel below type flexible exhaust, together with		
	suitable flanges and fittings shall be supplied for each silencer.		

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SPECIFICATION FOR 2000kW GENERATOR SET

S/N:	Description	Unit	Qty
	Alternator		
	The alternator shall be original Stamford Brand. The alternator shall be brushless, self-excited revolving type altenator, 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 heating coil should be fitted in the Alternator. The alternator must produce medium voltage of 11kV.		
	Generator arrangement and drive The engine and the alternator must be close coupled with SAE flange and shall be mounted on a simplex type base plate constructed of heavy duty rolled steel, bolted and electrically welded, drilled on the underside to allow the fitting of foundation bolts. The base plate shall allow anti-vibration mounts to be fitted. The anti-vibration mounts are to be supplied as loose item. Finishing After assembling the genset zinc coated self-etching primer should be applied to the complete set.		
1.2	Fuel system 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. The day tank and required fittings shall be supplied as loose items. All necessary fittings to be supplied in conformity with engine's fuel flow diagram.	1	No
1.3	Accessories Bidder shall supply following accessories required for installation of the above mentioned generator set. The Components shall meet the British Standard and ISO standards. Primary and secondary silencer barrels, exhaust pipe, elbows and flanges to match the engine exhaust	1	Lot
1.3.2	Bolts, nuts and washers for the flanges	1	Lot
1.3.3	Split type rockwool insulation lagging suitable for Exhaust pipes. The legging shall be covered with High Quality Aluminium foll.	1	Lot
1.4	Consumables		
	Consumable required for first six months of operation. The consumables should include air filters, fuel filters, lub oil filters, coolant additives and engine lubricating oil	1	Lot
1.5	Special Tools Special tools required for maintenance of the generator set	1	Lot

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SPECIFICATION FOR 2000kW GENERATOR SET

S/N:	Description	Unit	Qty
1.6	Factory Testing The generator should be fully tested at the manufacturer workshop in the presence of client's apointees to check the ratings, overload, functional tests on a dummy load prior to dispatch. The testing shall be conducted to internationally accepted testing standards. The bidder shall arrange airfare, transportation, accommodation and lodging for two of client's technicians for the testing (minimum of two day for testing)	1	Lot
1.7	Literature and drawings consisting of: 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 maintenace manual 1 No x Generator AVR manual 1 No x Governor control unit manual 1 No x Engine shop manual	1	Lot
1.8	Warranty Generator set should carry a warranty against any defect or malfunction for one year from the date of commissioning	1	Lot

Note:

The bids shall conform with the above mentioned specifications and requirements. Bids that do not comply with specification and requirement shall be deemed substantially unresponsive. Bidders shall submit following documents together with the bid.

- · technical data sheets of engine (manufacturer's data sheet)
- · technical data sheets of Alternator ((manufacturer's data sheet)
- datasheets of remote radiator specifying cooling system rated at ambient temperature 50°C
- Certificate of Authenticity specifying manufacturer / Assembler is an OEM of a Engine Brand

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