

INFORMATION SHEET FOR PROCUREMENT OF 250kW GENERATOR SET(S)

Reference No.: FNK-I/IUL/2021/438

Issued on 06th October 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 250kW				
		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				
Participants		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 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, 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				
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 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)				

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		- 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 t			
		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			

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	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
	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	1	
11. Sealing and	11.1	The bid document shall be sealed properly in an envelope clearly
Marking Bid		marked 'ORIGINAL' or 'COPY', with the name of the company
Document		and the tender reference number (FNK-I/IUL/2021/438)
12. Bid Opening	12.1	The bids will be opened on 21st October 2021, 11:00am in the
		presence of bidders

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	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		
15. Factory	Factory 15.1 The generator(s) shall be fully tested at the manufacturer wor	
Acceptance		in the 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.
	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)
l		- High temperature (alarm testing)

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- 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 50degree 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

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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.















Section III: Technical Specifications

Description	Quantity
250kW generator set	01

SPECIFICATION FOR 250kW Generator Set (2019)

S/N:	Description	Unit	Qty
1	250 kW prime rated diesel generator set with parameters 0.8 P.F, 415kV, 3 Phase, 4 wires, 50 Hz at 1500 r.p.m. Powered by Internationally reputed brand engine coupled with internationally reputed brand Alternator. The Generator set shall be powered by a Branded engine origin or assembled/manufactured by an Original Company's Licenced OEM manufactured/assembler.	1	No
	The engine must produce a mechanical power output (kW _m) which should meet the required electric power (kW _e) of 250kW and must be coupled with a 250kW Alternator with pre-installed Droop CT and a control connection box.(termination box to connect control cables and power cables)		
	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 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 radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be elecroplated 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 bellow type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer.		
	Alternator		

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	The alternator shall be brushless 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 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. The 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	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 are to be suuplied 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/apointees to check the ratings, overload, functional tests on a dummy load prior to dispatch <i>in case the bidder is unable to provide factory test</i> as required the bidder shall provide an extended warranty of one extra year than mentioned in item no 1.6 of this document.	1	NO
1.4	Literature and drawings consisting of: 1 No x Manual on How to handle the generation equipment 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
1.5	Accessories		
	The Components shall meet the British Standard and ISO standards. Items are for the		
1 - 4	above mentioned generator sets.		
1.5.1 1.5.2	Primary silencer barrel (to match engine exhaust) Secondary silencer barrel (to match engine exhaust)	1	No
1.5.2	3m Exhaust pipe dia (to match engine exhaust)	2	No No
1.5.4	Elbows having dia (to match the engine exhaust)	6	No
1.5.5	Flanges having dia (to match the engine exhaust)	4	No
1.5.6	Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2 washers, 1 spring washer 2 Nuts)	1	Lot
1.5.7	Split type rockwool insulation lagging suitable for 75 to 125mm dia. Exhaust pipes. The lagging shall be covered with High Quality Aluminium foil.	1	Lot
1.6	Warranty		
1.0	Generator set should carry a warranty of one year from the date of commissioning	1	Lot

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