

INFORMATION SHEET FOR PROCUREMENT OF 02mW GENERATOR SET

Reference No.: FNK-I/IUL/2020/086

Issued on: 05th April 2020

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 a
		02mW 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 Participants	2.1	Local companies registered in Maldives are eligible to
		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	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 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

Fenaka Corporation Limited

Ports Complex Building 7th Floor, HilaaleeMagu

Male' 20307, Republic of Maldives

Tel: [960] 300 7555 : عُوْرُدُرُ : Fax: [960] 332 7555 : وُرُعُدُ



ۇىزىن كايدۇنۇسىنىڭ موچىڭ گۇمىھە ئاۋىگۇۋىگە چۇپائدى 7 ۋىنز زىنگروپۇ، بەھۇر دۇ دۇر 20307 ، مۇرىگەنى

Email: info@fenaka.com.mv : پرځوموژ Website: www.fenaka.com.mv : څهستورځ





	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
	7.4	The bid security must be valid for a minimum of twenty
		(20) additional days beyond the validity of quotation
8. Tech	nical 8.1	All relevant information including the brand shall be given
Compliance		to 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
9. Documents	9.1	Quotation (inclusive of the delivery period and payment
Comprising the B	Bid	terms)
	1	

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ۇسرىما كايدۇپۇسىشىڭ وردىغاۋ كۇيرىھاڭ ئاۋدۇۋىك ھۇياشى 7 ۋىتر ۇشرەرۇ، برگو دۇ دۇر 20307) دۇرىمەن

Email: info@fenaka.com.mv : چورو و Website: www.fenaka.com.mv





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 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 Submission 11. Sealing and Marking Bid Document 11.1 The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK-J/UL/2020/086) 12. Bid Opening 12.1 The bids will be opened on 14th April 2020, 1000hrs in the presence of bidders			
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ۇسْرَنْ كَاندۇپْرْسَئْشْ وِدِغْ: كېرىھاڭ ئۇدۇرئىڭ ھۇياشد 7 ۋىتر ۇشردۇرۇ، رۇم دۇ: دۇر 20307 ، دۇرىمىدىغ

> Email: info@fenaka.com.mv : پُرَوْدِ پُوْسَادِيْ : Website: www.fenaka.com.mv





	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 Cont	ract	
14. Payment Terms	14.1	An advance will not be released for this project
15. Factory Acceptance	15.1	All generators should be tested to run at 25%, 50%, 75%,
Testing		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
	15.2	All the protections should work properly, it should be
		examined for oil and coolant leaks, and it should be
		visually tested and secured
	15.3	The remote radiator should operate continuously 100% in
		a 50 degree ambient temperature

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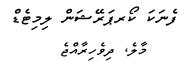


ۇسرىم ئايرۇپۇسىشىڭ وردىغاڭ كۇرىھىڭ ئادۇرۇشىڭ ھۇتاپىلىد 7 دىنىر ئۇشدۇرۇ، برۇم دۇۋ دۇر 20307، دۇرىمىڭ

> ير. دُرِرُو : info@fenaka.com.mv وُفْسَرِي : Website: www.fenaka.com.mv







- 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
- 15.4 Bidders shall provide an extended warranty of 01 year in case the Factory Acceptance Test cannot be conducted

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ۇىدىما كىرىمۇرىشىدىدى بودىخا كېرىھە ئادە ئۇرۇش چۇياشە 7 ھىد توشۇ يوقۇ، برقىچ دۇ دۇر 20307 ، يوغورىمارىخ

> ي. قَرْدُو : info@fenaka.com.mv ئۇھىرى : Website: www.fenaka.com.mv





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

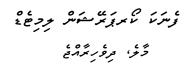
- (Proposed credit period / longest credit period) x 10
- No points will be given for payment terms if the supplier requests for Letter of Credit (LC)

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Section III: Technical Specifications

S/N:	Description	Unit	Qty
1		1	No
-	2000kW prime rated diesel generator set with parameters 0.8 P.F, 11kV, 3 Phase, 4		- 111
	wires, 50 Hz at 1500 r.p.m. Powered by MTU/MANN/CATERPILLAR or equivalent		
	(internationally reknowned Brand of) engine coupled with Stamford (or an		
	equivalent Brand of) Alternator.		
	The Generator set shall be powered by a MTU/MANN/CATERPILLAR or equivalent		
	engine and assembled/manufactured by an Original Licenced OEM		
	4 (C. 7) H. B.		
	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.		
	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 50ºC	0)	
	• Exhaust system		
	Ti and the state of the state o		
	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 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 Coil to be fitted in the Alternator. The alternator must produce medium voltage of 11kV.		
1.2	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. 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.		
1.3.1	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 foil.	1	Lot
1.4	Spare parts		
	All spareparts and consumable (eg. Fuel filter , etc) required upto first major overhaul of the generator set.	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	1	Lot
1.7	of client's technicians for the testing (minimum of two day for testing) Literature and drawings consisting of:	1	Lot
	 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		
1.8	Warranty Generator set should carry a warranty against any defect or malfunction for one year from the date of commissioning	1	Lot

Note:

Tel:

Fax:

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
- · technical data sheets of Alternator
- datasheets 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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TECHNICAL SPECIFICATION SHEET

.REMOTE RADIATOR OUT DOOR TYPE

The cooling equipment of compromising a heavy-duty tropical and vertical air flow remote radiator, with fans driven by Electric Motor (ABB or equivalent).standard IP 55. With VFD control)

The radiator core should be electroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable.

The remote radiator must be designed and sized to adequately cool the proposed engine generator set at ambient temperature of 50degree Celsius. And it must be not less than 4 numbers fan. Motor 7.5 hp) weather proof coated. The distance between generator and radiator is less than 10meter.

All the installation accessories must be BS standard include (seamless pipes, gate valves, bolt, flange .expansion tank, etc.) The generator should be continues running 100 percent load in 50 degree ambient temperature.

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