

INFORMATION SHEET FOR PROCUREMENT OF GENERATOR SETS

Reference No.: FNK-I/IUL/2021/178

Issued on 26^{th} April 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 generator sets
		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 10,000
		(Ten 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)
	/.1	additional days beyond the validity of quotation
8. Technical	8.1	All relevant information including the brand shall be given to
Compliance	0.1	enable technical evaluation of quoted items
Compliance	07	-
	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	9.3	Certificate of Authenticity specifying that manufacturer /
		assembler is an OEM of a genuine reputed international engine
		brand
	l	

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	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	on	
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/2021/178)
12. Bid Opening	12.1	The bids will be opened on 09 th May 2021, 11:00am in the
F8		presence of bidders
	12.2	Bids will be opened at:
	12.2	Fenaka Corporation Limited
		renaka Corporation Emitted

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		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	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.
	14.4	Payment plan should not be less than 18 months
15. Factory	15.1	The generator shall be fully tested at the manufacturer workshop
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 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)
1	•	

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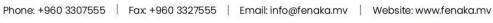




	- Over current (alarm testing)
	- High temperature (alarm testing)
	- Cooling system (alarm testing)
	- High voltage pressure (alarm testing)
	- All the functioning tests and routine tests should be done
15.3	All the protections should work properly, it should be examined
	for oil and coolant leaks, 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
	- 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

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Section III: Technical Specifications

#	DESCRIPTION	QTY
1	1200kW Generator Set	04

*Please note that the below specification is for one unit only.

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*Please note that the below specification is for 1200kW Generator Set.

SPECIFICATION FOR 1200Kw Generator Set

S/N:	Description	Unit	Qty
1	1200 kW prime rated diesel generator set with parameters 0.8 P.F, 11kV, 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 (UK, USA) 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 1200kW and must be coupled with a1200kW 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 • Iub 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 Cummins 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 $50^{\rm 9}{\rm C}$		
	 Exhaust system 450 mm of stainless steel below 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. The output voltage of		
	alternator should be 11000V. • 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.		L
1.2	Fuel system	1	N
		_	
	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	N
	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 iteme		
_	no 10 of this document.		
1.4	Literature and drawings consisting of :	1	Lo
	 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		
1.5	1 No x Engine shop manual Accessories		
1.3	The Components shall meet the British Standard and ISO standards. Items are for the		-
	above mentioned generator sets.		
1.5.1	Primary silencer barrel (to match engine exhaust)	2	Ne
1.5.2	Secondary silencer barrel (to match engine exhaust)	2	No
1.5.3	3m Exhaust pipe dia (to match engine exhaust)	4	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)	8	No
1.5.6	Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2	1	Lo
	washers, 1spring washer 2 Nuts)	+	LO
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	Lo

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Generator set should carry a warranty of one year from the date of commisioning 1

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Documents Required for technical evaluation

- · technical data sheets of engine
- · technical data sheets of Alternator
- datasheets specifying cooling system rated at ambient temperature 50°C
- Certificate of Authenticity specifying Assembler is a Cummins OEM

Evaluation Criteria :

Technical Specification : 10 marks Certificate of Authenticity : 5 marks

Note : Proposal that do not conform to the given technical specification shall be rejected.

Prepared and checked by : Rifaath Ali Jaleel (Deputy Director)

RAMA Technical Services & Green Energy Department

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