

INFORMATION SHEET FOR PROCUREMENT OF Generator Sets

Reference No: FNK-I/IUL/2021/066

Issued on 17th February 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 this bid invitation 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 I	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			
		USD 10,000 (Tell Thousand US Donars) of its			

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	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. Technical Compliance	8.1	All relevant information including the brand shall be
		given to enable technical evaluation of quoted items
	8.2	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
	8.3	Technical compliance letter will be required to enable
		technical evaluation
	8.4	If the goods do not comply with the requirements
		mentioned in Section III, Technical Specifications, the
		bid will be rejected during evaluation.
9. Documents	9.1	Quotation (inclusive of the delivery period and
Comprising the Bid		payment terms)
	9.2	Specifications of the offered product
	9.3	Single-line diagrams
	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)

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		- 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	11.1	The bid document shall be sealed properly in an
Bid Document		envelope clearly marked 'ORIGINAL' or 'COPY',
		with the name of the company and the tender reference
		number (FNK-I/IUL/2021/066)
12. Bid Opening	12.1	The bids will be opened on 28 th February2021, 1200hrs
		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	Fenaka Corporation Limited shall not consider any
		bidders that arrive after the deadline for submission
	13.2	Bidders that do not register for the tender are unable to
		participate in the bid opening
		participate in the old opening

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	13.3	Bids lacking the documents mentioned in 9. <i>Documents</i>
		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 Contra	ict	
14. Payment Terms	14.1	An advance payment will not be released for this
		project
15. Factory Acceptance	15.1	The items shall be fully tested at the manufacturer
Testing		workshop in the presence of Client's appointees via
		video conferencing
	15.2	The testing shall be conducted at internationally
		accepted testing standards
	15.3	The items shall undergo protection testing and
		operation testing
	15.4	The items shall be checked for dimension and the
		supplier shall provide the dimensions of the items
		during the virtual factory acceptance 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
- 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

Description	Quantity
2000KW Generator Set	3

2000kW (2500kVA) GENERATOR SET WITH HEAT EXCHANGER

S/N:	Description	Unit	Qty
1		1	No
_	2500kVA (2000kW) prime rated diesel generator set with parameters 0.8 P.F, 11kV, 3	-	110
	Phase, 4 wires, 50 Hz at 1500 r.p.m. Powered by MTU/MANN/CATERPILLAR engine		
	coupled with Stamford Alternator with rated electical output power 2000kWe at		
	voltage 11kV .		
	The Generator set shall be powered by a MTU/MANN/CATERPILLAR 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 2400kW		
	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 System		
	Cooling system shall be designed for separate circuit for cooling with		
	Platinum Heat Exchanger. The generator shall be supplied with necessary HT		
	pumps, thermostat, pipes and other accessories need up to and including		
	the heat exchanger.		
	The system 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.		
	suitable rianges and fittings shall be supplied for each sheries.		













2000kW (2500kVA) GENERATOR SET WITH HEAT EXCHANGER

S/N:	Description	Unit	Qty
	• Alternator The alternator shall be a reknowned 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
1.3.1	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 foil.	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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2000kW (2500kVA) GENERATOR SET WITH HEAT EXCHANGER

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 operation and maintenace manual 1 No x Generator dVR 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 Heat Exchanger specifying cooling system rated at ambient temperature 50°C
- Cooling system diagram and specification.
- $\bullet \ \ {\sf Certificate\ of\ Authenticity\ specifying\ manufacturer\ / Assembler\ is\ an\ {\sf OEM\ of\ a\ Engine\ Brand}$

Approved by

Abdulla Nashith Director Technical Services & Green Energy Department

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