

INFORMATION SHEET FOR PROCUREMENT OF 1000KW GENERATOR SET

Reference No.: FNK-I/IUL/2022/401

Issued on 01st June 2022

Issued by:

Fenaka Corporation Limited Male', Republic of Maldives





Section I: Instruction to Bidders

accordance with Sect1.2It is in Fenaka Corp mentioned in 1.1 at a2. Eligible2.1Local companies reg	Limited requests quotations for 1000kW generator set in
1.2It is in Fenaka Corp mentioned in 1.1 at a2. Eligible2.1Local companies reg	
2. Eligible 2.1Local companies reg	tion III, Technical Specifications
2. Eligible 2.1 Local companies reg	poration Limited's discretion to cancel the bid invitation
	iny time.
Participants 2.2Foreign companies a	istered in Maldives are eligible to participate in the tender
	re 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 eac	h item and the total price shall be clearly indicated in the
quotation	
3.2 All items shall be q	juoted in the bid (please refer to Section III, Technical
Specifications for the	e details of required items)
3.3 Quotation shall sep-	arately indicate the additional charges such as freight
charges and Insurance	e.
3.4 The bidder shall sub-	mit quotation on CIF basis to Male' port
4. Currency 4.1 The bidder shall quot	te entirely in Maldivian Rufiyaa
5. Alternative Bids 5.1 Bidders can submit a	a maximum of two (2) options
6. Validity of Bids 6.1 Quotation shall rema	in 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 5,000 (Five
Thousand US Dollar	s) or its equivalent in Maldivian Rufiyaa
7.2 The bid security show	ald be:
- Original bank gua	arantee letter (or)
- Bank guaranteed	and stamped check (or)
- An insurance poli	icy from Maldives Monetary Authority (MMA) registered
insurance compar	ay
7.3 Any bid not accompa	nied by a Bid Security shall be rejected during bid opening

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	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 enable technical
Compliance		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 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
	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
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	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
).1	opening
10 E	10.1	
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 Submiss	ion	
11. Sealing and	11.1	The bid document shall be sealed properly in an envelope clearly marked
Marking Bid		'ORIGINAL' or 'COPY', with the name of the company and the tender
Document		reference number (FNK-I/IUL/2022/401)
12. Bid Opening	12.1	The bids will be opened 13 th June 2022, 11:30am 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	Contr	act
14. Payment	14.1	An advance will not be released for this project
Terms	14.2	Proposed payment terms should not be tied with submission of Bill of Lading.
15. Factory	15.1	The generator(s) shall be fully tested at the manufacturer workshop in the
Acceptance		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.
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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)
	- High temperature (alarm testing)
	- Cooling system (alarm testing)
	- High voltage pressure (alarm testing)
	- All the functioning tests and routine tests should be done
15.5	All the protections should work properly, it should be examined for oil and
	coolant leaks, and it should be visually tested and secured
15.6	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
15.7	Recorded video clips while operating the units will not be accepted as virtual
	factory acceptance testing.
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Section II: Evaluation Criteria

Proposal Cost: 60 points for the lowest price

- (Lowest price / proposed price) x 60

Delivery: 30 points for the lowest delivery period

- (Lowest delivery period / proposed delivery period) x 30
- 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.

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Section III: Technical Specifications

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

Description	Quantity
1000KW Generator Set	01

Information of 1000 kW Generator Set

ŧ	Description	Unit	Qty
	1000 kW prime rated diesel generator set (open type) with parameters 0.8 P.F, 415 Volts, 3 Phase, 4 wires, 50 Hz at 1500 r.p.m. The Generator set shall be powered by a branded an Original Company's Licensed OEM manufactured.	1	No
	The engine must produce a mechanical power output (kW) which should meet the required electric power (kW) of 1000kW and must be coupled with a 1000kW Stamford Alternator with pre-installed Droop CT and remote mounted control panel. The controller should be Deep-sea model: 8810 / 8860 engine controller. Motorized TP, 1600A ACB c/w UVT Coil AC 230 V, brand "SCHNEIDER") or equivalent.	1	
	Engine to be complete with following auxiliary 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	- 1	
	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 trapical "W "type remote radiator, With fan driven by the Electric Motor (ABB or Equivalent) The radiator core should be		
	electroplated with silver solder tin plated to prevent early failure due to corrosion.		
	Radiator must be designed to adequately cool the generator at an ambient temperature of 50°C		
	Coupon blue coated radiator is acceptable.		
	• Exhaust system		
	450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer.		

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	Alternator		
	The alternator shall be brushless revolving type alternator, 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.		ľ
	• 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 canacity complete with level in first-		
	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 to be supplied 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/appointees to check the ratings, overload, functional tests on a dummy load prior to		
	dispatch.		
1.4	dispatch. Literature and drawings consisting of : (Optional)	1	Lot
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