

INFORMATION SHEET FOR PROCUREMENT OF 350kW GENERATOR SET

Reference No.: FNK-I/IUL/2023/016

Issued on 22nd January 2023

Issued by:

Fenaka Corporation Limited Male', Republic of Maldives





Section I: Instruction to Bidders

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 in the tender Participants 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 3.1 The unit price of each item and the total price shall be clearly indicated in the quotation 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 and Insurance. 3.4 The bidder shall quote entirely in Maldivian Rufiyaa 5. Alternative Bids 5.1 6.1 Quotation shall remain valid for minimum sixty (60) days from the date of bid opening 7.2 The bid security should be: - Original bank guarantee letter (or)	A. General		
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- Original bank guarantee letter (or)			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)			- Bank guaranteed and stamped check (or)
- An insurance policy from Maldives Monetary Authority (MMA) registered			- An insurance policy from Maldives Monetary Authority (MMA) registered
insurance company			insurance company
7.3 Any bid not accompanied by a Bid Security shall be rejected during bid opening		7.3	Any bid not accompanied by a Bid Security shall be rejected during bid opening

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Page 2 of 9





	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 technica
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 o
		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 II.
		Technical Specifications, the bid will be rejected during evaluation.
	8.6	Generator set should comply with our requirements, if not the bid will b
		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
		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 marked
Marking Bid		'ORIGINAL' or 'COPY', with the name of the company and the tender
Document		reference number (FNK-I/IUL/2023/016)
12. Bid Opening	12.1	The bids will be opened 26 th January 2023,11:00am 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.
Testing	15.2	The testing shall be conducted at internationally accepted testing standards

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Page 4 of 9





15.3	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
15.4	All the protections should work properly, it should be examined for oil and
	coolant leaks, and it should be visually tested and secured
15.5	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
15.6	Two (2) engineers from Fenaka Corporation Limited shall carry out necessary
	inspection and testing of equipment prior to shipment in supplier's warehouse
	to validate the items

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Page 5 of 9





	15.7	The bidder shall arrange airfare, transportation, stipend (as per the Client's
		policy), accommodation and lodging for two of Client's engineers for the
		testing (minimum two days for testing)

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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Page 6 of 9





Section III: Technical Specifications

Description	Quantity
Generator Set 350KW	01

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

SPECIFICATION FOR 350 kW Generator Set(2019)

Description	Unit	Qty
350 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.	1	No
The Construction of the powered by a Branded engine origin or		
The Generator set shall be powered by an Original Company's Licenced OEM		
manufactured/assenders		
The engine must produce a mechanical ward pust be coupled with a 350kW		
required electric power (kwe) or 550kW and a control compaction box (termination		
Alternator with pre-installed brodp C1 and a bloch contraction obcited minutes in		
box to connect control cables and power cables)		
Engine to be complete with following auxillary items :		
SAF flowheel 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 :		1
		1
	9	
 Fuel Shut-on solenoid Heave duty load acid batteries, supplied in a dry charged condition 	6	
	in .	
which should include efc, actuators, magnetic pickups, etc, including wiring		
Cooling Equipment Cooling equipment compromising a heavy-duty tropical radiator, together		
with nuclear type cooling fan and guards to be fitted. The radiator core		
should be electronlated with silver solder tin plated to prevent early failure		
due to correction. Coupon plated radiators are acceptable. Radiator has to		
bue to correct on vibration mounts with enough strength to withstand the		
radiator and vibrations.		
Radiator must be designed to adequately cool the generator at an ambient		
a Exhaust system		1
450 mm of stainless steel bellow type flexible exhaust, together with		
suitable flanges and fittings shall be supplied for each silencer.		
Alternator	1	
	 350 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 by an Original Company's Licenced OEM 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 Sender All to all sender Water Temperature Sender Alvolt charging altenator (Brushless) 24 Volt charging altenator (Brushless) 24 Volt charging altenator (Brushless) 24 Volt charging altenator (Brushless) Edoerning 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 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 in plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable. Radiator has to be mounted on vibrations. Radiator must be designed to adequately cool the generator at an ambient temperature of 50°C 	 350 kW prime rated diesel generator set with parameters 0.8 P.F, 415xV, 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. The engine must produce a mechanical power output (kW_m) which should meet the required electric power (kW_a) of 350kW and must be coupled with a 350kW 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 S& 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 Water Temperature Sender Out charging altenator (Brushless) 24 Volt charging altenator (Brushless) Heavy duly lead acid batteries, supplied in a dry charged condition Gooling Equipment Cooling Equipment The engine to be fitted with a close tolerance. Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wirling 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 tamperature of 50°C Ethast system 450 mm of stainless steel bellow type flexible exhaust, together with suitable flanges and fittings shall be supplied for each

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Page 7 of 9

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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 Coll 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 suupled as loose item. All necessary fittings to be supplied in conformity with fuel flow diagram.		
1.3	Factory testing		
	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 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 Generator AVR manual 1 No x Engine shop 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 above mentioned generator sets.		
1.5.1	Primary silencer barrel (to match engine exhaust)	1	No
.5.2	Secondary silencer barrel (to match engine exhaust)	1	No
.5.3	3m Exhaust pipe dia (to match engine exhaust)	2	No
.5.4	Elbows having dia (to match the engine exhaust)	6	No
.5.5	Flanges having dia (to match the engine exhaust)	4	No
.5.6	Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2 washers, 1spring 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

بمسب ليتدارخ الرخيم

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Page 8 of 9

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

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 manufacturer /Assembler is an OEM
 of a genuine reputed international Engine Brand

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

Prepared and checked by :

Technical Services & Green Energy Department

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Page 9 of 9