

# INFORMATION SHEET FOR PROCUREMENT OF 1500kW GENERATOR SET

Reference No.: FNK-I/IUL/2023/255

Issued on 18th July 2023

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 1500kW generator set(s) 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 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. Preparat	1	
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
	2.4	and Insurance.
<b>1</b> C	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	6.1	Quotation shall remain valid for minimum sixty (60) days from the date of bid
Bids	0.1	opening
7. Bid Security	7.1	All bids should be accompanied with a bid security of USD 1,000 (One Thousand
7. Dia Security	/.1	US Dollars) or its equivalent in Maldivian Rufiyaa
	7.2	The bid security should be:
	1.2	- 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	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
	0.0	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
	0.4	bidder is required
l	8.4	Technical compliance letter will be required to enable technical evaluation
		Dage 2 of 8

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Port Complex Building, 7th Floor, Hilaalee Magu, Male, 20207, Maldives











بمسب للغدائر مراكزتيم



Fenaka Corporation Limited Male, Maldives

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)         9. Documents       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 profile/background       - Company profile/background         -       Company profile/background       - 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 with project name and value         -       Letters with project name and value       - Letters with project name and value         9.6       One (1) compact disc with original bid document (1 original and 1 copy)         enclosed separately in two envelopes and sealed with company stamp         10.       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) </th <th>CORPORATION LIMIT</th> <th></th> <th></th>	CORPORATION LIMIT		
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151 The generator(s) shall be tully tested at the manufacturer workshop in the presence	1 erms		
		15.1	The generator(s) shall be fully tested at the manufacturer workshop in the presence
of Client's appointees.		l	or Chent's appointees.

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	-	
15. Factory	15.2	The testing shall be conducted at internationally accepted testing standards
Acceptance		
Testing		
8	15.3	Generator(s) should be tested to run at 25%, 50%, 75%, 100%, and 110% of rated
	10.0	load and power factor until the engine temperature stabilized for 30 minutes, and
		should check the protections below:
		1
		- 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
	15.7	The bidder shall arrange airfare, transportation, stipend (as per the Client's policy),
	10.7	accommodation and lodging for two of Client's engineers for the testing (minimum
		two days for testing)
		two days for tosting)
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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

**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.

#### SPECIFICATION FOR 1500Kw Generator Set

S/N:	Description	Unit	Qty
1		1	No
	1500 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 MTU/MANN/CATERPILLAR or equivalent (internationally		
	reknowned Brand of) engine coupled with reknowned brand Alternator with rated output		
	power 1500kW at voltage 11kV.		
	The Generator set shall be powered by a MTU/MANN/CATERPILLAR or equivalent engine		
	and assembled/manufactured by an Original Licenced OEM manufacturer/assembler.		
	The engine must produce a mechanical power output (kW <sub>m</sub> ) which should meet the		
	required electric power ( kW <sub>a</sub> ) of 1500kW and must be coupled with a 1500kW. Alternator		
	with pre-installed Droop CT and remote mounted control panel.		
	The engine should meet the Emmision standard (g/hp-hr) as follows		
	HC a,d :0.30		
	VHC b : 0.2997		
	NOx a,d : 4.5		
	NMHC+NOxa : 4.80		
	CO a :2.60 - 8.50		
	PM #: 0.15 - 0.40		
	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		
	<ul> <li>Low lubricating oil pressure switch</li> </ul>		
	High engine temperature switch		
	lub oil sender		
	Water Temperature Sender		
	<ul> <li>All necessary items to run and to protect the engine</li> </ul>		
	<ul> <li>Starting equipment fitted to engine, consisting of :</li> </ul>		
	<ul> <li>24 Volt charging alternator (Brushless)</li> </ul>		
	<ul> <li>24 Volt starting motor</li> </ul>		
	<ul> <li>Fuel Shut-off solenoid</li> </ul>		
	<ul> <li>Heavy duty lead acid batteries, supplied in a dry charged condition</li> </ul>		
	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 System		
	Cooling system compromising a heavy-duty tropical remote radiator, with fans		
	driven by Electric Motors (ABB or equivalent) .		
	Remote Radiator must be vertical air flow type designed and sized to adequately		
	cool the generator at an ambient temperature of SO <sup>a</sup> C, with heat load and flow		
	rate necessary to achieve this. Please refer to attached specification of remote		
	rediator for additional details.		

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1	Exhaust system		
	450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer.		
	Alternator		
	The alternator shall be of a reputable reknown Brand.		
	The alternator shall be brushless revolving type alternator, having class H insulation on both the states and field windless. It shall be built and extend to PS		
	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.		
	<ul> <li>Generator arrangement and drive</li> </ul>		
	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 suuplied as loose item. All necessary fittings to		
	be supplied in conformity with fuel flow diagram.		
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
	covered with high quarky Automatin for.		
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 Special tools required for maintenance of the generator set	1	Lot
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.	1	Lot
	The bidder shall arrange airfare, transportation, accommodation and lodging for two of		
	client's technicians for the testing (minimum of two day for testing)		

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CENTIFICO ISO 45001:2018



SEBULFUES ISO 9001:2015



ASIAN POWER AWARDS 2 0 2 0



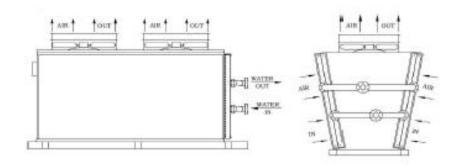


1.7	Literature and drawings consisting of :	1	Lot
	<ul> <li>1 Nos x Electrical wiring diagram</li> </ul>		
	<ul> <li>1 No x Engine operation and maintenance manual</li> </ul>		
	<ul> <li>1 No x Engine parts catalogue</li> </ul>		
	<ul> <li>1 No x Generator parts catalogue</li> </ul>		
	<ul> <li>1 No x Generator operation and maintenace manual</li> </ul>		
	<ul> <li>1 No x Generator AVR manual</li> </ul>		
	<ul> <li>1 No x Governor control unit manual</li> </ul>		
	<ul> <li>1 No x Engine shop manual</li> </ul>		
1.8	Warranty	1	Lot
	Generator set should carry a warranty against any defect or malfunction for one year from		
	the date of commisioning		

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#### **Remote Radiator Specification**

 The Remote Radiator must air-cooled fluid cooler vertical air flow type with an arrangement as shown in drawing below or similar.



- 2) Heat Load (kW) and Flow rate (L/min) of must be properly determined to cool the engine with mechanical load capacity (kWm) the radiator intends to cool.
- 3) Remote radiator shall consist of heat transfer coils made of seamless copper tubes and high efficiency aluminium fins, complete with water headers and connections.
- The unit shall have propeller fans with adequate capacity (speed 1200 1500 RPM) driven by electrical induction motors
- 5) Fan motor shall be axial type fan of brand ABB or an equivalent reputable brand operating on three phase, 415V, 4P SOHz alternating current and meant for
- outdoor use with atleast ingress protection of grade IP55.
- Rediator casing shall be made of GI sheet metal work and It shall be mounted on heavy duty base frame made of MS sections for floor mounting
- 71

Paint grade of radiator casing and frame shall be ISO C4/C5, marine grade (paint thickness 120 micron or higher)

- 8) Expansion tanks must be provided if required
- 9) All required valves and guages must be provided with the remote radiator



Abdulla Nashith Director Technical Services & Green Energy Department

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