

INFORMATION SHEET FOR PROCUREMENT OF REMOTE RADIATOR

Reference No: FNK-I/IUL/2023/078

Issued on: 21st March 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 remote radiator 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	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
Tur trespunts	2.2	value is above 2,500,000 Maldivian Rufiyaa.
B. Preparation	on of th	<u> </u>
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. GST for mentioned charges should be omitted in grand
		total.
	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	5.1	Bidders can submit a maximum of two (2) options
Bids		
6. Validity of	6.1	Quotation shall remain valid for minimum sixty (60) days from the date of bid
Bids		opening
7. Bid Security	7.1	All bids should be accompanied with a bid security of USD 1,000 (One
		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)
		- An insurance policy from Maldives Monetary Authority (MMA) registered
		insurance company
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!	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	If the manufacturer or assembler is not the same as the bidder, a document
		indicating that manufacturer or assembler is willing to sell the item to the bidder
		is required
	8.3	Manufacturer's Authorization 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 payment terms)
Comprising	9.2	Manufacturer's data sheet and Specifications of the offered product
the Bid	9.3	Engineering drawing of the offered product(s)
	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	10.1	The Bidder shall submit two (2) sets of the bid document (1 original and 1 copy),
Bid		enclosed separately in two envelopes and sealed with company stamp

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	10.2	All pages of the bid document shall be stamped and bound properly (excluding				
	10.2	the bid security)				
C. Bid Submission						
11. Sealing and	11.1	The bid document shall be sealed properly in an envelope clearly marked				
Marking Bid	11.1	'ORIGINAL' or 'COPY', with the name of the company and the tender				
Document Document		reference number (FNK-I/IUL/2023/078)				
12. Bid Opening	12.1	The bids will be opened on 02 nd April 2023 1000hrs in the presence of bidders				
12. Did Opening	12.2	Bids will be opened at:				
	12.2	Fenaka Corporation Limited				
		Hilaalee Magu, K. Male', Republic of Maldives				
	12.3	Bids received electronically will not be accepted				
13. Bid	13.1	Fenaka Corporation Limited shall not consider any bidders that arrive after the				
Rejection	13.1	deadline for submission				
Rejection	13.2	Bidders that do not register for the tender are unable to participate in the bid				
	13.2	opening				
	13.3	Bids lacking the documents mentioned in 9. <i>Documents Comprising the Bid</i>				
	13.3	(except 9.5 Experience letters) and that do not comply with 10. Format of Bid				
		are subjected to be rejected				
D. Awarding	of Con	<u> </u>				
14. Payment	14.1	An advance payment will not be released for this project.				
Terms	14.1	Proposed payment terms should not be tied with submission of Bill of Lading.				
15. Factory	15.1	The Radiator(s) shall be fully tested at the manufacturer workshop in the				
Acceptance	13.1	presence of Client's appointees.				
Testing	15.2	The testing shall be conducted at internationally accepted testing standards				
resung	15.2	• • •				
		The radiators(s) shall undergo protection testing and operation testing All the protections should work properly, it should be examined for all and				
	15.4	All the protections should work properly, it should be examined for oil and				
	155	coolant leaks, and it should be visually tested and secured The remote redictor should energies continuously 100% in a 50 degree embient.				
	15.5	The remote radiator should operate continuously 100% in a 50-degree ambient				
		temperature.				

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- 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

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

Description	Quantity
Remote Radiator (800kW)	01

^{*}Please note that the below specifications are for one unit only

TECHNICAL SPECIFICATIONS OF REMOTE RADIATOR

The cooling equipment consisting W type radiator with heavy-duty structure, suitable for tropical weather, and equipped with vertical air flow fans driven by electric motor .Standard IP55 or IP65 (10 HP) (ABB or equivalent).

Cooling circuit and pipe line should be designed for two separate circuits for jacket water and after cooler water of the engine. Primary FCW-120(LT+HT) Secondary FCW-120.

All installation accessories must be BS standard and include seamless pipes, gauges, gate valves, flanges, bolts elbows and expansion tank.

The radiator must be designed and sized to adequately cool CUMMINS KTA50-G3 engine and meet below specs.

Cores Tin Coated

Motor controller Automatic

Low Coolant Level Protection Engine Shutdown

Air Flow Vertical

Ambient Temperature 50C
Inlet Coolant Temperature 90C
Outlet Coolant Temperature 84C
Heat Rejection 676 kW
Maximum Coolant Friction Head 69 kPa
Maximum Static Head 18.3m

 Electric Motor
 3ph, 400V, 5.6kW

 Motor Starter
 Soft Starter

 Motor Protection
 IP 54

 Insulation
 Class F

 No. of Fans
 2

Noise Level 75dB (A) @ 7m Overall Dimensions (L x W x H), 4155 x 2030 x 2520mm

Cooling water pipe line should be designed to install at 6m distance from the engine.







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