

INFORMATION SHEET FOR PROCUREMENT OF SEA WATER COOLING SYSTEM

Reference No.: FNK-I/IUL/2023/177

Issued on: 17th May 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 sea water cooling system		
		required for RO Plant in accordance with Section III, Technical Specifications		
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	n of th	ne Bid		
3. Bid Prices	3.1 The unit price of each item and the total price shall be clearly in			
		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 freigh		
		charges and insurance. 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 5,000 (Five		
		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		
	7.3	Any bid not accompanied by a Bid Security shall be rejected during bid		
		opening		

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8. Technical 8. Technical 8. 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 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 Comprising the Bid 9.1 Quotation (inclusive of the delivery period and payment terms) Company registration certificate - 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) 9.4 Experience letters, if available - Letters within past five (5) years - Relevant experience letters - Letters with project name and value 9.5 One (1) compact disc with original bid document scanned and written 9.6 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)			
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	Bid		copy), enclosed separately in two envelopes, and sealed with company stamp
the bid security)		10.2	All pages of the bid document shall be stamped and bound properly (excluding
			the bid security)
C. Bid Submission			

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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/2023/177)	
12. Bid Opening	12.1	The bids will be opened on 24 th May2023, 1300hrs 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 9.4 Experience letters) and that do not comply with 10. Format of Bid	
		are subjected to be rejected	
D. Awarding	of Con	tract	
14. Payment	14.1	An advance payment will not be released for this project	
Terms	14.2	Proposed payment terms should not be tied with submission of Bill of Lading.	
15. Packing	15.1	Materials must be packed in accordance with the packing list given in Section	
		III: Technical Specifications/Packing List to avoid rejection	
16. Factory	16.1	The generator(s) shall be fully tested at the manufacturer workshop in the	
Acceptance	16.2	presence of Client's appointees. The testing shall be conducted at internationally accepted testing standards	
Testing	16.3	The transformer(s) shall undergo protection testing and operation testing	













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

Description	Quantity
Sea water cooling system	01

Ref No: FNK-SP01 /R/2023/01

Supply of Equipment for Sea Water Cooling System at GDh. Thinadhoo

Fenaka Corporation is looking for supply of main equipment to build a sea water cooling system for following generator sets installed in Gdh. Thinadhoo Powerhouse

2Nos x Cummins QSK60-G4 (prime power rating: 1800kW)

1Nos x Cummins QSK60- G3 (prime power rating: 1500kW)

1Nos x Cummins KTA50-G8i (prime power rating: 1200kW)

Below are required minimum specification of heat exchanger, pumps and accessories. Bidders are requested to propose the same or equivalent.

1) Plate Heat Exchanger

Required Quantity: 4 Nos

Brand: Alpha Laval, Denfoss or equivalent

Specification:

Parameter	Hot Side	Cold Side	
Heat Load (kW)	> 700		
Inlet Temperature (°C)	95 to 98	25 to 30	
Outlet Temperature (°C)	87 to 75	45 to 65	
Mass Flow Rate (kg/s)	22.4	13.68	
Volumetric Flow Rate (L/min)	1300	800	
Total Pressure Drop (kPa)	<41.97	<30	
Fouling Factor (m2K/kW	0.0232	0.0232	
Logarithmic Mean Temperature Difference (ΔK)	33.4 - 45		
	>4798/>3923	T	
HTC (W/m2.K) Properties of Fluid	74798/ 73923		
Fluid	Raw Water	Sea Water	
Liquid Density (kg/m3)	900 to 1020.00	900 to 1020.00	
	4.0 – 4.2	4.0 – 4.2	
Liquid Heat Capacity (kJ/kgK) Specification	4.0-4.2	4.0 - 4.2	
Number of Plates	20.50		
	30 -50		
Grouping Plate Thickness (mm)	1 x 15 / 1x 15		
Plate Inickness (mm)	< 0.50		
	Titanium		
Gasket material	Rubber NBRH		
Weight, empty/ operating (kg)	292.34/314.52		
Paint Category	C4		
Connection: Inlet	DN100, PN16 studded end		
Connection: Outlet	DN100, PN16 studded end		
Minimum Design Temperature (°C)	50		
Maximum Design Temperature (°C)	90 - 100		
Maximum Design Pressure (Bar)	10		
Maximum Differential Pressure (Bar)	10		

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2) Pumps

Required Quantity: 8 Nos

Brand: Stanflo, Johnson or equivalent marine pump

Specification:

Closed impeller according to DIN 24255

Material: Cast-iron, cast-iron or bronze impeller with SS shaft

Ports DN 50mm discharge x 65mm suction, flanged

Motor: 11kW, 15HP, 2Pole 2900RPM, 3 Phase, 50Hz, 400V, Class F, IP55, TEFC

Flow: 40m3/hr @ 52 differential head

3) Strainers

Required Quantity: 8 Nos

Brand: tanflo, Johnson or equivalent compliance with DIN 87151D standard

Specification:

Type: Straight pattern mud box strainer with removale filter basket for easy cleaning

Size: DN100, PN10 flange

Material: Cast-iron (GG25) body; Stainless Steel (SS316) Filter; NBR Cover Gasket, Brass Drain plug

Pressure: max 4 bars

Temperature Range: 10°C to 120°C









