



# **MALDIVES INDUSTRIAL FISHERIES COMPANY LTD (MIFCO)**

## **Terms of Reference:**

**Procurement and Installation of Reverse  
Osmosis (RO) plant (150 Tons) at Kooddoo  
Fisheries Complex**

BID REFERENCE NO: 134-PRO/I/2023/04

Date: 16 January 2023

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## 1. Introduction

Maldives Industrial Fisheries Company (MIFCO) is interested in purchasing 1-unit Reverse Osmosis (RO) plant for making fresh potable water out of clean sea water. This plant will be used at Kooddoo Fisheries Complex in conjunction with other existing RO plants and be connected to the existing water grid.

## 2. Background Information about the company

Maldives Industrial Fisheries Company is the leader of Maldives Fisherman with more than 3 decades of service to the Maldives fisheries as a state-run corporate enterprise for the processing and exportation of fisheries products. Throughout the history of this company, we have shown our commitment to the development of the fisheries sector in the Maldives while maintain the unique identity of the Maldives pole and line fishery.

MIFCO manages the largest fish procuring operation in Maldives collecting pole & line Skipjack tuna and hand line caught Yellow Fin tuna. MIFCO, has its operations based in 04 factories located in 04 strategic geographic regions across Maldives. While procuring fish directly and leading logistical support to fisherman through additional fleet of MIFCO's own collector vessels. MIFCO has EU accredited factories to process, canned, chilled, frozen and value-added products. Products are exported mainly to international and regional markets, and in various value-added packaging for the demands of local markets.

The core ability to withstand competition comes through delivering quality assured tuna rather than quantity and by responsibly sourcing it, despite the hardship of the process. MIFCO stands steadfast supporting our fisherman's tremendous effort to bring a progressive economic growth to Maldivian fishing industry.

## 3. Scope of supply

The bidder is required to supply and install 1-unit of 150 Tons per day reverse osmosis (RO) fresh water making plants at Kooodoo Fisheries Complex. This plant will be added to a pool of other existing RO plants and be connected to the fresh water holding tanks at Kooodoo.

The plant should consist of **filtration system, reverse osmosis system, self-cleaning and dosing system, and electrical control system**. The filtration system should be connected to the already existing bore hole Sea Water Intake System. Product water is to be connected to already existing storage tanks. Technical specifications stated in 3.1 are minimum requirements of Mifco and "to be specified" is left to bidders to specify.



### 3.1 Technical Specifications

#### 3.1.1 Requirements

No. of Plants to be supplied and installed	1
Daily production capacity	150 Tons Fresh water
TDS of product water	<500 ml/l
pH of product water	6-8
Multimedia filter for feed water	Automatic and manual backwash to be provided
Filter media	Silicate+ quartzite+ anthracite
3 group Dosing System to be complete with pumps, re-agent tanks and accessories	3 groups <ul style="list-style-type: none"> <li>• Sodium meta-bisulphite.</li> <li>• In-line flocculation</li> <li>• Anti-scaling</li> </ul>
Control panel	Touch screen and PLC controlled Touch screen mounted on plant skid.
All necessary instruments and sensors necessary for control of flows must be mounted on control panel	
Manuals to be provided.	Operation and maintenance manuals in English Parts list for all pumps and control equipment.

#### 3.1.2 Data to be provided by the bidder

All information in the following table must be given provided by the bidder fully and specific to the item of supply

<b>Electric Power</b>	
Total installed electric power of the Plant (kW)	
<b>Feed water pump</b>	
Brand	
Type	
Flow rate capacity	
Material of Construction (MOC)	
Power of the pump	
<b>Filtration system</b>	
No of filters for each plant	
Filter size	
Filter material of construction (MOC)	
Flow rate through filter	
Maximum pressure	
Working Pressure	
<b>Dosing system</b>	
Make	
A Brief description of the System	
<b>Microfiltration</b>	
Material of construction of microfiltration vessel and filters	
No. of cartridges	
Flow rate	
<b>RO Membranes and pressure vessels</b>	
Number of membranes	



Number of membranes in a vessel	
Membrane diameter	8"
Membrane length	
Membrane make	Filmtec or Hydraunautics
Material of construction of pressure vessel	ROPV
<b>High pressure pump</b>	
Pump Brand and Model	Fedco with energy recovery /
Material of construction	
Maximum Working Pressure	
Normal operating pressure	
Pump flow rate	
Energy recovery system – provided or not	
Pump power (kW)	
<b>Cleaning in Place</b>	
System make	
System flushing auto or manual	
Cleaning-In-Place (CIP) brief description	

#### 4. Instructions to Bidders

4.1 Supplier shall be responsible for careful examination of all quotation and documents. It is a responsibility of the supplier to collect and clarify all the necessary information prior to bidding and no alteration to submitted offer will be accepted by the Employer after the offer is submitted.

4.2 Language of documents shall be English.

4.3 Technical specifications must be specific.

4.4 All information in the Technical Specifications should be provided in the same format as stated. Extra information may be provided as necessary.

4.5 Equipment Manufacturer’s specification must be provided for all pumps, membranes and dosing system.

4.6 A schematic diagram depicting flow process of the plant should be attached in the proposal.

4.7 Quotation currency can be either in United States of America currency (USD) or Maldivian Rufiyaa (MVR)

4.8 Each supplier must submit only one proposal by itself and should be valid for at least 90 days. A supplier who submits or participates in more than one proposal will be disqualified. If MIFCO discovers or has a reason to believe that collusion exists among any/all quotations, any/all such quotations will be rejected, and all participants in such collusion will be excluded from consideration for future quotation for the same work.

4.9 The quotation price must be written without erasures, both in figures and in words. In case of discrepancy between figures and words, the words shall prevail.



4.10 The quotation shall be typed or written in indelible ink and signed by authorized signatories. Any change should be initialled.

4.11 Work once awarded cannot be outsourced.

4.12 Any Forms related to the RFQ shall be filled and submitted with the quotation.

4.13 Amendments before the deadline for submission of quotations

4.13.1 The Employer may modify the RFQ by issuing addenda. To give prospective suppliers reasonable time in which to take an addendum into account in preparing their quotations, the Employer shall extend, as necessary, the deadline for submission of quotations.

4.13.2 Deadline for submission of quotation may be extended at the discretion of Employer. Quotation submitted after deadline shall be rejected.

4.14 Quotation is to be submitted via email to the e-mail address given below in clause 10

4.15 If the email is not received to the email, the Employer will assume no responsibility for the misplacement or premature evaluation of quotations.

4.16 Quotations will be evaluated by a committee appointed by Company CEO. The CEO may or may not be a member of this committee.

4.17 The award shall be notified to the successful supplier within the validity date of the quotation.

4.18 The committee will review each quotation and perform a detailed evaluation based on the evaluation criteria described in this document. Quotations not meeting the technical specifications described in clause 3.1 will not be evaluated.

4.19 In the event where the prices received are above the prices anticipated or where the submitted quotations are not representatives of the prices in the general market, MIFCO reserves the right to negotiate.

## 5. Required Documents

5.1 Bid Form (similar to form in Annex 1)

5.2 Quotation including price, price validity and payment terms (Annex 2)

5.3 Technical specification of offered RO Plant (Annex 3)

5.4 Documents showing bidder's previous experience in supplying and installing similar RO plants. (Annex 4)

5.5 Technical documentation of plant as Annex 5



## 6. Evaluation Criteria

Criteria	Marks
Total Price	60%
Technical specifications	25%
Bidder's experience in Maldives	5%
After sales service / warranty terms	5%
Delivery period	5%
Maximum marks	100%

## 7. Evaluation Guidelines

### 7.1 Evaluation criteria

Marks shall be distributed on Pro-rata basis. The highest scorer would get maximum from each category (number 6).

#### 7.1.1. Total Price (60%):

Lowest price offered would achieve the highest. Higher Quotation will receive lesser marks in proportion to the lowest quoted.

#### 7.1.2. Technical Specifications (25%):

Marks will be judged on Mifco's experience with offered machine. Emphasis will be given on judging the quality and type of offered high pressure pump and membranes. Other parts of machines also will be looked upon and features of the plant also will be judged.

#### 7.1.3. Bidder's experience in Maldives (5%)

This will depend on the number of plants delivered and installed in the Maldives. More than 10 plants 5%; between 5 and 10 plants, 3%; less than 5 and 1, 2%.

#### 7.1.4 After sales service and warranty terms (5%)

This criterion will be judged by the type of service offered after installation.

#### 7.1.5 Delivery period (5%):

If Delivery period is less than 3 months, 5%; between 6 and 3 months, 2%.

## 8. Payment Terms

Total payment for the entire work will be apportioned as per the below schedule.

Terms	%
Upon delivery	50%
After Commissioning	45%
3 Months After Commissioning	5%

## 9. Award of Contract

Contract will be awarded to the highest evaluated bidder. A letter of intention to award the contract will be sent to the winner and others will be notified of the winner. A contract, similar to Annex 5, will then be signed with the winning bidder.



## 10. Conditions of the contract

- 9.1 The goods and services supplied in this contract should confirm to the specifications mentioned in the technical specification, and should comply with all regulations and laws applicable in the Maldives.
- 9.2 Mifco or a representative of Mifco shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser.
- 9.3 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery and/or at the Goods final destination.
- 9.4 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 9.5 The Goods supplied under the Contract shall be fully insured in Maldivian Rupees in an amount 110% of the value of goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.
- 9.6 The supplier shall furnish following documents at the time of installations
  - a. Manufacturer's original warranty certificate
  - b. Operations manual and spare parts manual of important parts of the plant, particularly of all pumps and control equipment.
  - c. The Supplier shall provide complete and legal documentation of hardware, all sub-systems, operating systems, compiler, system software and the other software, as applicable. The Supplier shall also provide licensed software for all software products, whether developed by it or acquired from others. The supplier shall also indemnify the purchaser against any levies/penalties on account of any default in this regard.
  - d. Installation and work completion certificate by the supplier.
- 9.7 The supplier shall carry sufficient inventories to assure ex-stock supply of consumables and spares. Supplier shall ensure the availability of after sales service for warranty period.
- 9.8 Duration of the warranty period should be 12 months from the date of completion of the installation of the plant.
- 9.9 Payment for goods and services will be in quoted currency (MVR or USD)
- 9.10 Payment terms are to be decided by the bidder.

## 11. Queries

Any query regarding this RFQ should be sent by e-mail to the following address at least 2 days before the date of submission of the bid.

[bid@mifco.mv](mailto:bid@mifco.mv)

## 12. Submission of Quotation

12.1 Deadline for submission quotation is **24<sup>th</sup> January 2023, before 14:00 PM**

12.2 Bidders are to submit their Quotations via e-mail to [contract@mifco.mv](mailto:contract@mifco.mv) addressed to:

**Mohamed Shameem**  
Manager  
**Technical and Projects Department**  
**Maldives Industrial Fisheries Company Limited**  
Hilaaleemagu,  
Maafannu, Male' 20389 Maldives



## Annex 1

## Bid Form

Date:

RFQ No:

**TO: Maldives Industrial Fisheries Company Ltd.**

Gentlemen and/or Ladies :

Having examined the Request for Quotation (including Addenda Nos..... *[insert numbers]*, if issued) the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the Reverse Osmosis pant in conformity with the said RFQ for the sum of ..... *(Total bid amount in words and figures)*

We undertake, if our bid is accepted, to deliver the goods in accordance with the **delivery schedule** specified in our quotation.

We agree to abide by this bid for the Bid validity period specified in the quotation and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in the Maldives.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this ..... day of ..... 20 .....

\_\_\_\_\_  
*(signature)*

*(in the capacity of)*

Duly authorized to sign Bid for and on behalf of



## Annex 2

(Quotation including all prices, price validity period and payment terms)



## Annex 3

(Technical specification of RO Plant)



## Annex 4

(Bidder's experience in supplying and installing RO Plants in Maldives)



## Annex 5

## Contract Form

THIS AGREEMENT made the .....day of....., 20... Between Maldives Industrial Fisheries Company Ltd. of Maldives (hereinafter called "the Purchaser") of the one part and ..... (*Name of Supplier*) of ..... (*City and Country of Supplier*) (hereinafter called "the Supplier") of the other part :

WHEREAS the Purchaser is desirous that certain Goods and ancillary services viz., (*a 150 tons per day Reverse Osmosis fresh water making plant*) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of ..... (*Contract Price in Words and Figures*) (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - (a) the Bid Form (Annex 1)
  - (b) Quotation including price, price validity and payment terms (Annex 2)
  - (c) Technical Specifications of offered RO Plant (Annex 3)
  - (d) Documents showing bidder' s previous experience in supplying similar RO Plants (Annex 4)
  - (e) Conditions of the Contract; and
  - (f) the Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.



4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services which shall be supplied/provided by the Supplier are as under:

*Supply and installation of a Reverse Osmosis (RO) fresh water making plant that can produce 150 tons fresh water with less than 500 ppm of TDS per day under normal operating conditions.*

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

<p>Signed, Sealed and Delivered by the</p> <p>said ..... (For the Purchaser)</p> <p>in the presence of:.....</p>	<p>Signed, Sealed and Delivered by the</p> <p>said ..... (For the Supplier)</p> <p>in the presence of:.....</p>

