

**KERALA STATE CO-OPERATIVE FEDERATION FOR FISHERIES  
DEVELOPMENT LTD  
KAMALESWARAM, TRIVANDRUM – 695009, KERALA STATE  
Phone: 0471 – 2457172, 2457756 Fax: 0471 – 2457752**

**TENDER NOTICE NO.III**

Competitive tenders in separate sealed covers super scribed with the name and number of tender are invited in two-bid system for the supply and erection of the following machinery/equipments for its Glucosamine Plant as per European Pharma copeia standards from the manufacturers, authorised distributors reputable suppliers and sole agents.

<b>Tender No.</b>	<b>Description.</b>	<b>Tender document price (Non Refundable).</b>
No. III	Purchase of Chemical process plant Purchase of centrifuges, filter press etc	Rs1000+ tax

The tender forms with detailed specifications and terms and conditions may be had from Matsyafed Head Office at Trivandrum on payment of Rs 1000+ tax and is not refundable under any circumstances. or can be downloaded from the web site [www.matsyafed.org](http://www.matsyafed.org)

The tenderers can submit tenders for either all the machinery/equipment or in part.

Due date and time for receipt of tenders at 3 PM on 23.09.2010

Due date and time for opening of tenders at 4 PM on 23.09.2010

**The bid should contain**

- a) Prescribed tender form duly signed and sealed
- b) Detailed technical specifications with price quote.
- c) Original brochure & literature supporting the technical Specification.
- d) Earnest Money Deposit of Rs 25000.
- f) List of installations in India ,fully your own installed or part.
- g) Details of service facility
- h) Compliance to payment condition

- i) Delivery period
- j) Place of delivery
- k) Warranty
- l) Training details etc
- m) AMC details
- n) Price list of essential spare parts

The tenders duly filled and signed by the tenderer along with necessary documents should be submitted to the Managing director, Kerala state co-operative federation for fisheries Development Ltd(MATSYAFED),Kamaleswaram, Manacaud. P.O Trivandrum-695009 on or before 3 pm on 23.09.2010

Specimen of the agreement to be submitted in stamp paper is in the last page of the tender form. Earnest Money Deposit (EMD) amount of Rs 25000 (twenty five thousand only) shall be submitted by way of demand draft, deposit receipt or bank guarantee in favour of The Managing Director, Kerala state co-operative federation for fisheries Development Ltd(MATSYAFED),Kamaleswaram,Manacaud.P.O Trivandrum-695009. In the case of bank guarantee, its validity should be up to 30/6/2011.

The bids will be opened at 4 PM on 23.09.2010 at the office Managing Director, Matsyafed, Trivandrum in the conference hall in the presence of such tenderers or their authorized representatives who may be present at that time.

The Managing Director, MATSYAFED, Trivandrum reserves the right to accept or reject all or any tender at his sole discretion without assigning any reason. For legal purposes, the cause of action will be deemed to have arisen in Trivandrum, Kerala state.

## **TERMS AND CONDITIONS**

1. The latest model shall be quoted and certified.
2. The bid will be examined by a committee decided by the management to assess the technical capability, credibility and authenticity of the bidder.
3. The quoted price should include cost of the equipment, all taxes and duties, freight, insurance, installation and commissioning separately.
4. Payment condition:  
If the price is quoted in Indian rupees, 90% payment will be released after successful commissioning. 10% of the price will be retained as security deposit and will be released on completion of the guarantee period.
5. Factory site/Installation site  
All the equipments/machinery as per this tender is to be delivered & installed in the factory site in **Paravoor** village in **Alappuzha district**
6. The installation should be done by the supplier.
7. Delivery period: The equipment and its accessories should be completely supplied, installed and commissioned within 3 months from the date of supply order.
8. Warranty: The entire equipment and its accessories should have comprehensive warranty from the date of acceptance. Specify the warranty period
9. The rates and terms of AMC (both comprehensive and labor) for a minimum period of 5 years after the warranty period shall be clearly specified. The labor AMC amount will be taken in to consideration for final selection.
10. Training should be given to the staff free of cost.
11. List of installations in India over past 5 years shall be provided
12. Duely completed tender document through registered post or in person will only be accepted as per the time schedule.
13. The detailed specification of the equipment are given in the website:  
[www.matsyafed.org](http://www.matsyafed.org)

**SD/-**  
**THE MANAGING DIRECTOR**  
KERALA STATE CO-OPERATIVE  
FEDERATION FOR FISHERIES  
DEVELOPMENT LTD.  
KAMALESWARAM, MANACAUD P.O,  
THIRIVANANDAPURAM PIN - 695009,  
KERALA Phone: 0471 – 2457172,2457756  
Fax: 0471-2457752

**ANNEXURE-I**

**CONTRACT AGREEMENT**

(to be executed by the successful bidder on award of the contract on Rs. 100/- Kerala Stamp Paper(Non Judicial))

This agreement made on this ..... day of ..... between the Managing director, Kerala state co-operative federation for fisheries Development Ltd(MATSYAFED),Kamaleswaram, Manacaud. P.O Trivandrum-695009 herein after called MATSYAFD which expression shall include its administrators, successors, executors and assigns) of the one part and ..... (name of contracting company), a company/firm incorporated under the ..... having its registered Office at .....

..... (herein after referred to as “Contractor”, which expression shall include its administrators, successors, executors and permitted assigns) of the other part.

WHEREAS MATSYAFED has invited bids for supply and erection of the machinery/equipments for its Glucosamine plant as per European pharma copeia standards from manufacturers ,authorized distributors, reputable suppliers (briefly describe scope of the works) as per its Tender notice No. ....dated .....

AND WHEREAS \*..... had participated in the above referred bidding vide their proposal no. .... dated ..... and Matsyafed accepted the aforesaid proposal and awarded the contract to

\*..... on terms and conditions contained in its work order No. ....dated ..... and the documents referred to therein,

which have been accepted by

\*..... resulting into a “Contract”.

NOW THEREFORE THIS DEED WITNESSETH AS UNDER:-

**1. AWARD OF CONTRACT**

1.1 MATSYAFED has awarded the contract to \*..... for the work of the supply and erection of ..... on the terms and conditions contained in its work order No. ....dated..... and the documents referred to therein. The award has taken effect from ..... ie., the date of issue of the aforesaid letter. The terms and expressions used in this Agreement shall have the same meaning as are assigned to them in the “Contract Documents” referred to in the succeeding Article.

## 2. CONTRACT DOCUMENTS

2.1 The contract shall be performed strictly as per the terms and conditions stipulated as per the following documents attached herewith (hereinafter referred to as “Contract Documents”):

i) Matsyafed;s Tender Documents in respect of tender No. ....dated .....consisting of Notice inviting Tender and conditions of contract including all amendments issued vide its letter(s) no(s). .... dated .....

(Volume-I)

ii) Matsyafed’s Schedule and Technical Specification (including Amendments issued vide its letter no..... dated .....

(Volume-II)

iii) ..... proposal no..... dated ..... along with proposal sheets, payment terms and work schedules submitted by Contractor for the supply and erection of the Glucosamine plant

(Volume-III)

\* Brief name of the contracting company

iii) Agreed Minutes of the meeting held on ..... between MATSYAFED and the Contractor.

(Volume-IV)

iv) Matsyafed Work Order No. ....dated ..... duly accepted by the Contractor.

(Volume-V)

2.2 All the aforesaid contract documents shall form an integral part of this Agreement, in so far as the same or any part thereof conform to the Bid Documents (Volume I & II) and what has been specifically agreed to by Matsyafed in its Work Order. Any matter inconsistent therewith, contrary or repugnant thereto or any deviations taken by the Contractor in its “Proposal” (Volume-.III) but not agreed to specifically by Matsyafed in its Work Order shall be deemed to have been withdrawn by the Contractor. For the sake of brevity, this Agreement along with its aforesaid contract documents shall be referred to as the “Agreement”.

### **3. CONDITIONS AND COVENANTS**

3.1 The scope of contract, consideration, terms of payment, price adjustment, taxes wherever applicable, insurance, liquidated damages, performance guarantee and all other terms and conditions are contained in MATSYAFED’s Work Order No. ....dated..... read in conjunction with other aforesaid contract documents.

The contract shall only be performed by the Contractor strictly and faithfully in accordance with the terms of the Agreement.

3.2 The scope of work shall also include supply and installation of all such items which are not specifically mentioned in the contract documents, but which are needed for successful, efficient, safe and reliable operation of the equipment unless otherwise specifically excluded in the specification under “exclusions” or Work Order.

#### **3.3 TIME SCHEDULE**

Time is the essence of the contract and schedules shall be strictly adhered to.

The Contractor shall perform the work in accordance with the agreed schedule as given in the work order.

3.4 The Contractor guarantees that the equipment package under the contract shall meet the ratings and performance parameters, as stipulated in the Technical Specifications (Volume II) and in the event of any deficiencies found in the requis its performance figures, the MATSYAFED may at its option reject the equipment package or alternatively accept it on the terms and conditions and subject to levy of the liquidated damages in terms of

contract documents. The amount of liquidated damages so leviable shall be in accordance with the contract documents and without any limitation.

3.5 It is further agreed by the Contractor that the contract performance guarantee shall in no way be construed to limit or restrict the Matsyafed 's right to recover the damages/compensation due to short-fall in the equipment performance figures as stated in para 3.4 above or under any other clause of the Agreement. The amount of damages/compensation shall be recoverable either by way of deduction from the contract price, contract performance guarantee and/or otherwise.

3.6 This agreement constitutes full and complete understanding between the parties and terms of the presents. It shall supersede all prior correspondence to the extent of inconsistency of repugnancy to the terms and conditions contained in the Agreement.

Any modification of the Agreement shall be effected only by a written instrument signed by the authorised representatives of both the parties.

#### **4. SETTLEMENT OF DISPUTES**

4.1 It is specifically agreed by and between the parties that all the differences of disputes arising out of the agreement or touching the subject matter of the agreement, shall be decided by process of settlement & arbitration as specified in the relevant clauses of the conditions of the contract and the provisions of the Indian Arbitration Act, 1940 shall apply and Kerala Courts alone shall have exclusive jurisdiction over the same.

4.2 Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties hereto if delivered against acknowledgement or by telex or by registered mail with acknowledgement due, addressed to the signatories at the address mentioned herein above.

IN WITNESS WHEREOF, the parties through their duly authorised representatives have executed these presents (execution whereof has been approved by the competent authorities of both the parties) on  
the day, month and year first above mentioned at Thiruvananthapuram.

For KERALA STATE CO-OPERATIVE FEDERATION FOR FISHERIES  
DEVELOPMENT LTD

(Signature)

(Name), (Designation)

(Seal)

for Contractor (Contractors signature),

( Name), (Designation)

(Seal)

Witnesses:

1.

2.

Witnesses:

1.

2.

**KERALA STATE CO-OPERATIVE FEDERATION FOR FISHERIES DEVELOPMENT LTD (MATSYAFED)**

**SPECIFICATION SHEET FOR TENDER NO.III**

**PURCHASE OF CHEMICAL PROCESSING PLANT MACHINERY**

**CENTRIFUGES.FILTER PRESS & P.P PUMPS**

<b>Sl. No.</b>	<b>Description</b>	<b>Purpose</b>	<b>Quantity</b>	<b>Amount</b>	<b>Remarks</b>
7	Stainless steel 316 haler coated 36" dia centrifuge, top discharge type	Process Filtration	01		For details ref. Anx-7
8	Poly propylene filter press 36"x36"16 plates	Process Filtration	01		For details ref. Anx-8
9	Poly propylene pump for filter press	To be used for filter press	01		For details ref. Anx-9

## ANNEXURE – 7

DOCUMENT NAME :	DATA SHEET FOR HALLAR COATED TOP DISCHARGE CENTRIFUGES
DOCUMENT NUMBER :	CON / KER / CF /36” / 13

Sl. No.	Process and operating data	Vendor compliance	Remarks
01	Item: manual top discharge, GMP model with VFD, haler coated centrifuge	36 inches dia SS 316 haler coated	
02	Filtration area	**1.4 SQM	
03	Maximum slurry volume	**150 litres.	
04	Maximum cake volume	**150 litres	
05	Bulk density of cake	0.8 to 1.5 Kg / ltr	
06	Fluid to be filtered	slurry in organic solvent / acid and water	
07	Specific gravity	0.8 to 1.5	
08	Viscosity	aprox 10000 to 30000 CP	
09	Product property	flammable	
10	Operating temperature	- 20 to 125 Deg C	
11	Operation type	batch	
12	Mechanical design Data	4 point suspension,	
13	Type	Top discharge	
14	Design code	**ASME . Sec . VIII. Div. I	
15	Basket	920 mm dia X 625 450 mm depth	

16	Body	Perforated shell : 6 mm thk SS 316 haler coated Top Lid : 6 mm thk SS 316 haler coated		
17	Basket bottom	Bottom shell : 6 mm thk SS 316 haler coated Top shell : 6 mm thk SS 316 haler coated Lid and dish : 4 mm thk SS 316 haler coated		
18	Shaft			
19	Bearing housing	Base 6 mm Thk MS lined with 16 SWG thick SS 316 cladding and haler coated on both sides		
20	Brake	**EN – 24 with 4 No's suitable bearings  CI with the arrangement for greasing and top should be covered with SS 316 haler coated cap.  Dynamic braking through VFD		
21	ACCESSORIES AND FITTINGS			
22	Variable frequency drive for motor	Reputed make with the speed variator operating between 0 to 1000 RPM Drive shall be placed in a powder coated cabinet with required braking		
	Operating panel			

23	Safety switches	chopper and contactors.		
24	Dampeners	Flp, with start, stop button and Digital RPM meter		
25	Platform	Flame proof for the lid and brake operation		
26	Motor	4 No's of SS dampers bolted at 4 corners of the inertia plate		
27	Safety guard	supporting platform made of SS 316 haler coated of size 1200 X 1500 mm W		
28	Safety guard	Flp, 1440RPM, 440 Volt, 7.5 Hp crompton make 3 ph and 50 cps		
29	Mesh	SS 304 with required lowers for motor		
30		SS 304 with required perforation for motor		
		PP fabric with 5 micron and another with 10 micron		
	NOZZLE OF SCHEDULE -----	Description ----- -----		
31	Feed pipe	SS 316 haler coated dia 50 mm, ASA 150 standard		
32	Wash pipe	SS 316 haler coated dia 25 mm, ASA 150 standard		
	Filtrate outlet			

33	Vent	SS 316 haler coated dia 80 mm, ASA 150 standard		
34	Light glass	SS 316 haler coated dia 50 mm, ASA 150 standard		
35	View glass	100 mm dia clear toughened glass		
36	Nitrogen purging	100 mm dia clear toughened glass		
37		3/ 8 “ dia nipple on top lid and on bearing housing		

**Notes:**

1. fabrication of equipment and accessories should comply with latest GMP standards such as no sharp edges, corners pin holes etc.  
should be there in the process wetted part and only use PTFE food grade gasket material
2. minimum thickness should be indicated in the drawing
3. \*\* to verified by the vender
4. All nozzle pipes shall be of seamless quality.
5. the equipment should have earthling boss, name plate and lifting legs as per standard practice
6. Vendor to quote along with erection & commissioning.
7. MOC with material traceability should be submitted for all contact parts.
8. vendor to submit detailed fabrication drawing in 3 copies

9. Vender should submit all GMP related documents such as IQ, PQ,& DQ etc.

10. Vendor to submit 18 months guarantee.

**VENDOR SCOPE OF WORK**

Vessel	Yes	Agitator	NA
Access Ladder	NA.	Drive Motor	Yes
Blind Flanges	Yes	Drive Assembly	Yes
Fasteners	Yes	End Bolts	Yes
Gaskets .	Yes		Yes

<b>INSPECTION AND TESTING</b>	<b>To be offered</b>	<b>To be Witnessed by party</b>
Test Certificate	Yes	Yes
Material	Yes	Yes
Load Test	Yes	Yes
Dimensional Check	Yes	Yes
FAT	Yes	Yes

Prepared by	Approved by
Checked by	Authorized by

## ANNEXURE - 8

DOCUMENT NAME :	DATA SHEET FOR 36 INCHES PP HORIZONTAL FILTER PRESS
DOCUMENT NUMBER :	CON / KER / DS FP 36" PP / 14

			Vendor compliance	Remarks
1.	Name of the Equipment	Filter Press for Chemicals		
2.	Category and Code	Chemicals filtration		
3.	MOC	Poly propylene		
4.	Description	Plate and Frame Type, Filter size 36" x 36" No. of plates 36, Working pressure 50 psi, Complete with mounting frame, Filter cloth, Plunge Pump, Safety Valve, Pressure Gauge & filtrate Collection Trays, Spare filter cloth: 4 sets  Material of Construction: contact parts PP, Other parts: CS, SS 304 cladded		
5.	Tightening arrangement	By hydraulically operated ram by using power pack system		
6.	Fluid to be filtered	HCL, Methanol and material in		

7.	Fluid temperature	suspended form -20 to 100 deg C		
8.	Nozzle details	i) Feed in 80 mm dia 1 No.s with ASA 150 std flange ii) Filtrate outlet 50 mm dia 4 No.s with ASA 150 std flg.		
9.	Lifting hooks	to be provided for easy installations		
10.	Filter plate	Poly propylene, **50 mm thick, 36" X 36" with the handles bolted on either side of plate		
11.	Gasket	Silicon food grade gasket		
12.	Filtration tray	Rectangular made of 2 mm thick SS 316 sheet with 50 mm Dia outlet		
13.	Surface finish	External SS cladded to be finished to 80 grit matt & other MS portion to be sand blasted & epoxy grey painted		
14.	Filter cloth	Non woven, PP filter cloth		
15.	Spare Parts	Necessary spare parts for a period of six months to be supplied along		

		with the equipment		
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### General data required

1.	Surface finish External SS cladded to be finished to 80 grit matt &
2.	other MS portion to be sand blasted & epoxy grey painted
3.	Spare nozzles to be provided with Gasket and Blinds
4.	All nozzles shall be provided with blind flanges **vendor to verify the design & give specifications

### VENDOR SCOPE OF WORK

Equipment	Yes	Fasteners	Yes
Access Ladder	NA	Gaskets	Yes
Blind Flanges	Yes		

INSPECTION AND TESTING	To be offered	To be Witnessed by party.
Test Certificate	Yes	Yes
Material	Nil	Yes
Hydro.	Yes	Yes
Dimensional Check	Yes	Yes

Prepared by	Approved by
Checked by	Authorized by

### ANNEXURE-09

DOCUMENT NAME :	DATA SHEET FOR PUMP FOR FILTER PRESS
DOCUMENT NUMBER :	CON / KER / DS PFP / 15

	Operating Condition		Vendor compliance	Remarks
1)	Capacity	m <sup>3</sup> / hr	5.0	
2)	Head	mts	25	
3)	Pump suction size	mm	80	
4)	Pump discharge size	mm	50	
5)	Temperature	deg C	0 to 100	
6)	Fluid to be pumped		Hcl, Methanol & material in suspended form	
7)	Specific gravity	m <sup>3</sup> / kg	0.8 to 1.8	
8)	Viscosity	Cp	100 to 10000	
9)	Corrosion		Corrosive	
10)	pH		2 to 9	

	Design Conditions		Vendor compliance	Remarks
1)	Design Code			
2)	Design temperature deg C	Std engineering practice		
3)	Design head in Meters	-5 to 125		
4)	Capacity cu.mtr./ hr.	30		
		6.0		

	<b>Construction data</b>			
1)	Type	Centrifugal with motor coupled		
2)	Base frame	** Made out of MS Channels		
3)	Vibration pad	** Anti vibration damper pad to be provided		
4)	Coupling	** Star coupling		
5)	Seal	Single seal mounted on sleeve of reputed make		
6)	Motor	** 5 HP, 2800 RPM, 3 Phase, 50 cps, FLP motor		

1)	<b>Dimensions / Nozzle Schedule</b> Suction	** 80 mm dia with flange ASA 150 std.		
2)	Discharge	** 50 mm dia with flange ASA 150 std		
	<b>Material of Construction</b>			
1)	Pump	CS PVDF / Teflon lined		
2)	All contact parts	PVDF		
3)	Non-Contact parts	CS / MS with epoxy spray grey coated		
4)	Impeller	** CS PVDF / Teflon lined		
5)	Shaft	** EN-8 PVDF lined		
6)	Sleeve	** Ceramic / Hest alloy		
7)	Coupling	CS		
8)	Base frame	MS with FRP quoted.		

## General data required

1.	MS portion to be sand blasted & FRP lined.
2.	Spare nozzles to be provided with Gasket and Blinds
3.	All nozzles shall be provided with blind flanges
4.	**vendor to verify the design & give specifications

## VENDOR SCOPE OF WORK

Equipment	Yes	Fasteners	Yes
Access Ladder	NA	Gaskets	Yes
Blind Flanges	Yes		

INSPECTION AND TESTING	To be offered	To be Witnessed by party.
Test Certificate	Yes	Yes
Material	Nil	Yes
Hydro.	Yes	Yes
Dimensional Check	Yes	Yes
Impellor curve	Yes	Yes
Load test.	Yes	Yes

Prepared by	Approved by
Checked by	Authorized by