

**Tender Document for Procurement of Machineries for Focus Incubation Centre at
ATIRA**

**Tender No. : 5
Date: 10th July, 2017**

Ahmedabad Textile Industry's Research Association

P.O. AmbawadiVistar, Ahmedabad - 380 015

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DETAILS OF TENDER AND NOTICE

Tender in sealed cover is invited by Focus Incubation Centre, ATIRA from manufacturers or authorized agents for the supply of Carrying System for the use of the Focus Incubation Centre. Details of the equipment & its specifications are given below. Interpretation of the terms & conditions and other related issues in the tender would lie with ATIRA only.

LAST DATE FOR SUBMISSION OF DULY FILLED UP SEALED TENDER AT ATIRA, Ahmedabad is **24th July 2017 up to 1.00 p.m.**

The technical bids will be opened at 10.00 a.m. on 25th July 2017

Address for Communication:

The Administrative Officer, Room No. 005,
ATIRA, P.O. Ambawadi, Vistar, Ahmedabad - 380 015, India.

For further details contact :

Nilesh Mehta, 9727136116
Composites division
ATIRA

1. Water Pumps:

1A - Horizontal Open Well Submersible Pump: Quantity-01 No

Discharge Capacity: 200m³/hr
Discharge Diameter: 4 inch
Head: 32 Meter
MOC of Pump Casing Motor Body CI IS210
Impeller - CI IS210 FG200
Shaft: SS 410
Pressure - 2 Kgf
Insulation Class: F, IP 55
Motor class - IE2
Efficiency: > 70 %
Motor Make Good Quality
Power Supply: 415 V, 3 Ph
Dimension (LxWxH):
Weight:
Inclusive of electrical Panel
Power cable length: 10 Meter
Supervision should be provided free of cost during commissioning by vendor.
Warranty 2 Years

2A - Horizontal Open Well Submersible Pump: Quantity-01 No

Discharge Flow Capacity: 150m³/hr
Discharge Diameter: 6 inch
Head: 20 Meter
MOC of Pump Casing Motor Body CI IS210
Impeller - CI IS210 FG200
Shaft: SS 410
Pressure - Nil
Motor class - IE2
Insulation Class: F, IP 55
Efficiency: > 70 %
Motor make: standard and Good Quality
Power Supply: 415 V, 3 Ph
Dimension (LxWxH):
Weight:
Power cable length 10 meter
Application: For Cooling tower
Inclusive of electrical Panel
Supervision should be provided free of cost during commissioning by vendor.

Warranty 2 Years

**3A - Horizontal Open Well Submersible Pump
Quantity-01 No.**

Discharge Flow Capacity: 5m³/hr

Discharge Diameter: 2 inch

Pressure: 2 Kg/hr

Head 20 Meter

Motor class - IE2

Insulation Class: F, IP 55

Efficiency: > 70 %

Impeller - CI IS210 FG200

Shaft: SS 410

Dimension (LxWxH):

Weight:

Power Supply:

Power cable length 10 meter

Inclusive of all Accessories

Warranty 2 Years

**4A - Horizontal Centrifugal Back Pull Out Type Bare Shaft Pump:
Quantity-01 No**

Application: Hot water

Water Temperature: 100Deg.C

Discharge Capacity: 15m³/hr

Pressure Nil

Head: 20 Meter head

Impeller: SS

Shaft: SS

Sleeve: SS

Motor class - IE2

Insulation Class: F, IP 55

Efficiency: > 70 %

Discharge Diameter: 2"

Dimension (LxWxH):

Weight:

Power Supply:

Flange, Coupling, Complete Set

Supervision should be provided free of cost during commissioning by vendor.

Warranty 2 Years

2. Water Valve:

1 - Globe Valves:

Size and Quantity: **6 inch – 1 no**
 5 inch – 1 no
 4 inch – 2 nos

Application: Cast Steel WCB Body Class#150
Flange End
Body/Cover: ASTM A 216 Gr. WCB
TRIMS: 13 Cr/18 Cr 8 Ni, Seat and Seal: PTFE
Mfg. Std.: BS 1873
Inspection and Test Std. : BS 6755
Ends: Flanged to ANSI B 6 1 6.5RF (150#)

2 - Wafer Style Butterfly Valve:

Size and Quantity: **6 inch – 2 nos**
 5 inch – 1 no
 4 inch – 2 nos

Body: CI Round Handle
Disc: CI
Steam AISI 410/ AISI 304
Seat EPDM
Shaft AISI410/AISI 304
Mfg. Standard Bs 5155
Insp. & Test Std. BS 6755
Ends Wafer type to suit ANSI B 16.5(150#)
Valve rating PN 10
Temperature: Ambient

3 - Non Return Valve:

Size and Quantity: **6 inch – 1 no**
 4 inch – 1 no
 2 inch - 1 no

Material: SS, Brass or gun metal
Horizontal

4 - Strainer:

Horizontal
Material: SS or Brass
Size and Quantity:

6 inch – 1 no
4 inch – 1 no
2 inch - 1 no

1. Steam Control Valves for Impregnation Plant and press:

1. Pressure reducing station

Quantity: 01 No

IBR Approved

Pressure reducing system consists of following

Pressure reducing valve – 01 no Inlet Pressure 15 kg Outlet pressure: 10.5 kg

Gate Valve – Inlet and Outlet Isolation – 2 nos

By pass valve – Globe Valve class # 150 – 01 no.

Steam Flow: 500 kg/hr

Pipe size: 40NB

Inlet Pressure gauge - 01 no outlet Pressure gauge: 01 no

Flange End

All interconnecting pipe

Warranty 2 Years

2. Pneumatically controlled steam pressure regulator valve set

Quantity – 2 nos

IBR Approved

Pipe Size = 40NB

Inlet Steam Flow = 1.2 Lacs Kcal/hour (200 Kg/hr)

Steam Working Pressure: 10.5 Kg.

Steam Temperature: 170 Deg.C

End Connection: Flanged End

Signal input from control unit: 4 – 20 mA

Service Application: Steam 2 way

Pressure reducing system should be consisted as follows:

Inlet Isolation Valve: Gate Valve – SWE

Class # 800, SS Trim – 01 no

Outlet Isolation Valve: Gate Valve – SWE

Class # 800, SS Trim – 01 no

Bypass valve: Globe Valve – Class #800 SWE – 01 no

Control valve – Globe Valve operated by pneumatic actuator – Class #150 -01 no

Outlet Pressure Gauge – Baumer – 6 inch dial 0 -16 Bar – Baumer – 01 no.

Steam Pipe Size: 40NB

Globe valve for drain/instruments – Size: 1/2", Class # 800 - 02 nos

All internal connecting pipes

Warranty 2 Year

3 - Globe Valve:

Quantity: 1 No

IBR Approved

Class # 300

Steam pipe line size 80 NB

End Flange

4 – Float Trap Assembly for plant

Quantity: 01 no

Size: 40 NB

Steam Pressure: 13.5 Kg.

Steam Temperature: 160 Deg.C

Steam Flow 500 kg/ hr

5 - Float Trap Assembly for Press

Quantity: 01 no

Size: 80 NB

Steam Pressure: 15 Kg/hr

Steam Temperature: 160 Deg.C

Steam Flow 2000 kg/ hr

4 - Gantry Crane:

Quantity – 01 No

Wire rope Electric Hoist

Working Capacity: 2.0 ton

Design Capacity: 2.5 ton

Height of Lift: 5.5 Meter

Span: 4.5 meter

Duty class – II, Indoor as per IS -3177

Speed: Main Hoist: 4.5 MPM, Cross Travel: 12 to 15 MPM

Material: Heavy Duty MS with ISI certificate

Wheels: Heavy Duty material with double ball bearing

Warranty 2 Years

5. Hydraulic Hand Pallet Truck/Stacker:

Quantity – 01 No

Working Capacity: 2.0 ton

Design Capacity: 2.5 ton

Lowered Height: 90 mm

Raised Height: 2000 mm

Fork Length: 1200 mm

Fork width: 1000 mm (Exactable Fork)

Wheels: Heavy Duty material with double ball bearing

Warranty 2 Years

6 - Motorized Monorail Crane:

Quantity – 01 No

Wire Rope Electric Hoist with Electrically Operated Trolley

Working Capacity= 3.0 Ton

Lift Height = 4 meter from Hook of the crane, Length: 5 Meter, Width: 4.5 Meter

Fabrication with suitable capacity Girder and I beam

Class & Duty Class – II, Medium Duty, Indoor As Per IS-3177, 807 & 3938

Operate from floor by Means of Push Button Station.

Speed: Main Hoist 4 to 5 MPM ($\pm 10\%$)

Cross Travel 12 to 15 MPM ($\pm 10\%$)

Brake: Main Hoist EM AC Disc Break Type

Limit Switch:

Hook Plain Shank "C" Type to conforming to IS 3815 / 8610 with Thrust Bearing, spring

Panel AC 3 phase heavy duty – Schneider / BCH / C & S Make

Power Supply 415V, 3 Phases, 50 Hz

Painting one coat of primer & 2 coat of auto (Gray)

Warranty 2 Years

7. Water softening Plant:

Quantity – 01 no

Treated water hardness less than 5 PPM

Operation - Manual

Output: 7,000 LPH @ 4 Kg Pressure

Output between Regeneration: 75 KL

Material of construction: MS Vessel with rubber lining at internal contacted parts and outside paint to prevent corrosion

Resin volume 450 Litres (M/s. Ion Exchange/Thermax with certificate)

Required salt per Regeneration: 70 kg. (Common salt/Each charging)

Salt Regeneration Tank: Minimum 250 Litre HDPE

Duration between regeneration: less than 30 minutes

Discharge Flow: 7M³/hr

Maximum Pressure: 4 kg/cm²

Water Consumption: 25 KL per day

Hardness Testing Kit –2 no

Heavy duty valve

Total Dimension (LxWxH)

Warranty 2 Years

Raw Water properties:

Source: Bore well

Hardness: 300 PPM

TDS: 1350 PPM

PH: 7.00

Application for Boiler and Cooling Tower

8 - MS Platform Trolley:

Quantity: 02 nos.

Size of Platform: 2500 mm L X 1250 mm W (8.4 Feet x 4.4 Feet)

Height: 3 Feet

MOC: MS Channel with support 14 gauge

MS Axle fitted turn table

Heavy duty Wheel – 4 nos

UHMW HDPE wheel with double ball bearing

Weight Carrying Capacity: 1.5 Ton

Shaped Pipe Pulling Handle

Best Quality Auto Finish Paints

Warranty 2 Years

9. Diamond Cutter for cutting Machine:

Quantity: 1 no.

Application: For Carbon/Glass/Aramid Fiber Composite Product,
High Pressure Laminates

Imported Circular saw blade made in Germany, Italy etc...

Saw Blade Diameter: 300 mm

Spindle of Scoring Blade Diameter: 30 mm

Scoring Saw Blade Diameter: 120

Scoring Spindle Diameter: 20 mm

Speed of main saw spindle: 4000/6000 rpm

10. Dust Collection System for cutting machine:

Air suction capacity m³/min

Inlet Pipe Diameter 5" x 5"

Bag Capacity: 180

Power Supply: 415 V,

Motor: 2 HP 2800 RPM

Warranty 2 Years

11. Carrier Plate and Cover Plate for Hydraulic Press:

Carrier Plate:

Quantity: 06 nos

Size: 2700mm x 1350mm x 4mm + T Hook

Raw Material grade–Steelas per IS 2062

Wave Free Straightening

Radius at all corners

Cover Plate:

Quantity: 06 nos

Size: 2600mm x 1300mm x 4mm

Material grade – Steel as per IS 2062

Wave Free Straightening, Radius at all corners

12. Drum Handling Trolley (Drum Lifter):

Quantity-01 no

Less lifting force by a reliable hydraulic pump

Easier moving with two big size rollers and one caster wheel

Lifting Capacity (kg) 300 Lifting Height (mm) 345/13.58 Lifting per Stroke (mm) 22

Drum Size

572 mm (22.5"Diameter) variable, 210 Lifters (55 gallon) Net Weight 42 Kg

Lifting Capacity: 350 kg

Maximum Height: 200 mm

Min. Drum height (mm): 915 mm

Drum Size: 572 mm (22.5 Diameter), 210 Lifters (55 gallon)

Net weight: 50 kg

13. Weighing Balance:

Quantity: 01 no

Capacity – 1000 Kg

Platform – 3 Feet L * 3 Feet W

14. Weighing Balance:

Quantity: 01 no

Capacity – 5 Kg

Platform – 250 mm x 250 mm

15. Stirrer:

Material: SS 304

Capacity: 50 to 400 Liter

Viscosity: 100 to 1000

Adjustable Height

Heavy duty frame structure

Warranty 2 Years

III (A) TERMS AND CONDITIONS – GENERAL

1. Tender documents shall be issued by ATIRA at Ahmedabad to manufacturers / authorized agents. **ATIRA, Ahmedabad will be the tender issuing authority.**
2. Modifications, if any, made in the above documents will be done by addenda/ corrigenda, copies of which will be sent in duplicate to each bidder before the due date of the tender. One copy should be signed, sealed and submitted along with the technical bids. Tender to be submitted, is as detailed hereafter. The bidder shall not make any additions/ deletions to or amend the text of the documents except in so far as may be necessary to comply with any addenda/ corrigenda issued. The bidders shall use only tender documents as issued for submitting his bid and shall comply with various terms and conditions.
3. All pages of tender documents shall be signed by the person authorized to file the tender & all should be duly numbered.
4. The full name of the person authorized to file the tender, designation, current and main office address, Phone No., Fax No. & E-mail address shall be indicated in the tender.
5. Tenders sent through E-mail, Fax and Telex will not be entertained.
6. The tender should be filled in and submitted in English. All accompanying literature and correspondence shall also be in English.
7. No claim for costs, charges, expenses incurred by the bidder in connection with preparation of tender submission and for subsequent clarifications of their tender shall be accepted.
8. ATIRA will not be responsible for any typographical errors/ambiguity/ additions /omissions committed by the bidder while filling up of the tender.
9. Submission of a bid by a tenderer implies that he has read all terms & conditions, and has made himself aware of the scope and specifications of the items to be supplied, availability of materials, local conditions and other factors bearing on the execution of the supply.
10. The bidder shall be deemed to have full knowledge of documents and no extra charges consequent on any misunderstanding or otherwise shall be allowed.
11. Any question regarding the tender document and discrepancies shall be directed to the Tender Issuing Authority in writing minimum 3 days prior to the due date of submission of tender. The Tender Issuing Authority will issue all clarifications, interpretations, meanings and specific directions, if any, in duplicate in writing to all the bidders. One copy of these shall be returned duly signed and seal affixed along with the bids.
12. The bidder shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender and about the rates quoted by him and cover all his obligations under the tender.
13. Bids submitted by manufacturers and authorized agents only shall be

considered.

14. Bidder must have supplied their software/equipment(s) to reputed international composites laboratories supported by relevant documents.
15. Equipment/software's manufacturing company having strong and well established service support in western region of India will be preferred.
16. Authority of signing:
If the tender is submitted by an individual, it shall be signed by him.
If the tender is submitted by a proprietary firm, it shall be signed by the proprietor.
If the tender is submitted by a partnership firm, it shall be signed by all the partners of the firm or by a partner holding the power of attorney for the firm for signing the tender, in which case, a certified copy of power of attorney shall accompany the technical bid.
If the tender is submitted by a limited company or a corporation, it shall be signed by a duly authorized person.
17. Technical details shall contain
 - a) Original Tender document **duly signed** by the authorized person on all pages.
 - b) Compliance to technical specifications of the software/equipments for which bids are submitted – Authorized person to indicate the **compliance of technical specifications in the respective pages** of the tender document and sign the same.
 - c) **Compliance to the terms and conditions** of the tender document - Authorized person to specify, "All the above terms and conditions will be complied with" and signed in respective pages of the tender documents, where "terms and conditions" are given.
 - d) Adherence to the stipulated delivery schedule of the equipment/item – Authorized person to specify "delivery schedule given above will be complied with" and signed in respective pages of the tender documents, where "delivery schedule of each of the items" is as given in Annexure III.
 - e) **Proof that the bidder** is (i) either manufacturer or (ii) an authorized agent for which the bid is submitted.
 - f) The bidder must have supplied such equipments/software to internationally reputed Institutions. List of Institutions, both in India and abroad, along with Contact Person, address, Tel. No., Fax No. etc., to which **similar make/module** of the equipment/software were supplied, must be enclosed.
 - g) Covering letter, in the letter head of the bidder stating:
 - a. That the minimum **warranty period of two year**.
 - b. That the bid **conforms to the terms and conditions** of the tender

- c. The details regarding the service centers, stocking of spares etc.
 - h) Descriptive leaflet/brochure giving the technical details of the equipment/software.
 - i) Details of pre-installation requirements including space, size of the lab required, total electrical Load, Machine weight, utilities etc.
- 19.1 Details of Commercial contains
 - a) Total cost of the equipment/software (imported/indigenous), required for the functioning, including the control system, accessories, packing & forwarding etc. No money other than the total indicated above will be payable on any account.
 - b) The pre installation requirement should be mentioned in the bid.
- 20 Validity of the tender

The Bidder shall not withdraw or revise or alter any conditions, rate(s) quoted within this stated period, unless he is called upon to do so on mutual agreement / negotiations.
- 21 Opening of tender

The tender shall be opened by a Purchase Committee constituted by the competent authority, Focus Incubation Centre, ATIRA, at Ahmedabad, at the time, date and venue as given in the "Tender Notice".
- 22 Agreement

A copy of The Purchase order once received should be returned as a token of acceptance of the terms and conditions of the Purchase.
- 23 Criterion for rejection

ATIRA reserves the right to accept or reject any tender or reject all tenders without giving any reasons whatsoever for their decision.
- 24 Tenders are liable to be rejected in which any of the prescribed particulars / information is either missing or incomplete in any respect and/or if the prescribed conditions are not fulfilled.
- 25 Tenders which are found to be technically non - responsive shall be rejected and their commercial details shall not be considered.
- 26 Canvassing in connection with tender is strictly prohibited and tender submitted by bidder who resorts to canvassing will be liable to rejection.
- 27 Tenders containing specific conditions of the bidder other than the terms and conditions given in the tender document and not acceptable to ATIRA are liable to be rejected.

- 28 If the tender document duly signed by the authorized person on all pages is not submitted, the tender may be rejected.
- 29 ATIRA caters to wide range of customers/stakeholders including the manufacturers/exporters. Hence, Purchase Committee may, at its discretion, give preference to more popular brands of machines and instruments/accessories, which give results that, are widely accepted internationally by buyers abroad and the decision of the Committee will be final.
- 30 Before submission of the tender, the prospective bidders are expected to examine technical specifications of the equipments/software required, terms and conditions, etc., given in this tender document. Failure to furnish all information required in the tender document may result in the rejection of the bid.
- 31 ATIRA reserves the right to cancel items, from the list of requirement of equipments/software without assigning any reason thereof.

III (B) TERMS AND CONDITIONS- SPECIAL

1. Cost details are to be filled up for each of the instrument as applicable to imported /indigenous indicating therein total CIF charges.
2. All accessories, start up kit required for installation & commissioning the main equipment/software are to be specified and quoted
3. The suppliers of the equipment should provide adequate training for at least 2 technical personnel of the laboratory per equipment including trouble shooting etc., and making them confident of operating the equipment independently.
4. The bidder shall adhere to the delivery period of the equipment/item as committed by him.
5. The delivery installation & commissioning period of the equipment / machinery as agreed to should not be extended; under normal conditions.
6. The bidder shall give warranty for at least two year in respect of items quoted.
7. During the warranty period, regular servicing/maintenance should be undertaken free of charge, including replacement of defective parts/travel cost, etc. Subsequently, servicing/maintenance should be undertaken by the authorized agency of the manufacturer /supplier as per the annual maintenance contract conditions.
8. Operation manuals, troubleshooting manuals, calibration procedures and other instruction manuals should be provided along with each of the equipment.
9. The bidder shall also mention the probable life expectancy of the machine / instrument /accessory under normal conditions of operation should be stated wherever applicable
10. Terms for service contract (comprehensive or non-comprehensive) after the expiry of warranty period are to be included.
11. The Test Control Systems like computer and printer, compatible to the main instrument, are to be supplied indigenously with latest configuration.
12. If the equipment/item is not manufactured by the bidder, authorization of the manufacturer to the bidder for marketing and servicing the equipments/software in India should be enclosed along with the technical bid of the tender. In the absence of such authorization, the tender will not be considered at all.
13. In case of short supply or wrong supply of equipment/software, its parts or accessories or supply of items in damaged conditions, it is the responsibility of the bidder to arrange for the supply of the required items in working condition as per the purchase order, within a reasonable time. Any additional expenditure, whatsoever, for the above will be borne by the bidder only.
14. The specifications given in this document are the minimum requirement. The bidders are free to offer equipment/software with better features also. However, the evaluation

shall be based on the features mentioned in the tender document. If different model are quoted, the cost details may be given in separate sheet.

15. Orders for the supply of items, once placed with successful bidder is non transferable and no sub-contracting is permitted. ATIRA reserves the right to cancel the order in such event.
16. Any non-fulfillment of the stipulation given above will make the bid invalid.
17. The full payment will be released to the bidders only after completion of satisfactory performance check of the instrument/equipment.
18. In case of computer related equipment, the bidders have to quote for indigenous computer only instead of imported computers, if any.
19. The bids shall first be evaluated for their "technical responsiveness" which shall inter-alia include, Proof that the bidder is (i) either manufacturer or (ii) an authorized agent for the equipment/item for which the bid is submitted,
20. Compliance to technical specifications of the Equipment/Item/Software, for which the bid is submitted:
 - i. Adherence to the warranty period.
 - ii. Documents in support of compliance to the calibration of the equipment and its traceability to national/international standards of measurement and proven performance through proficiency, wherever such requirement is specified,
 - iii. Necessary documentary proof that the bidder has manufactured or supplied the equipment during the past 2 years along with the list of such customers and performance report of the equipment from at least 2 such customers/users for the past 2 years
 - iv. Details regarding the service centers, stocking of spares technical support & etc.
 - v. Confirmation about the supply of Certified Reference Materials/Samples for checking the performance of the items, wherever applicable.
 - vi. Compliance to all other relevant and critical terms and conditions of the tender.
 - viii. If any of the above mentioned parameters are not fulfilled, the bid may be considered as technically non-responsive.
21. The commercial details of those bidders who are technically responsive only shall be evaluated based on the following criterion:
 - i) Total price of the equipment as CIP / CIF for imported items.
 - ii) Total price of the indigenous items should include delivery charges up to the location ATIRA.
 - iii) AMC charges for three years after the expiry of the warranty period.

CHECK LIST TO THE BIDDERS

1. Fill up the relevant compliance columns in the specifications given for the Equipment/software quoted by stating „YES or „NO. If any deviations are there in the specifications, the details may be given.
2. Ensure that User certificates from at-least two users, on their letterhead stating that the performance of similar equipment/software supplied to them is satisfactorily, is enclosed
3. Descriptive leaflet / brochure of the equipment/software quoted are enclosed along with the technical details.
4. Prior to submission of bids, bidders have to ensure that the equipments/software quoted by them is as per the national / international standard mentioned in the specification.