

Tender Notice

File.No. C (812)/SMD/2017-18/

Dated: Guwahati: 01/12/2017

Indian Institute of Entrepreneurship (IIE), an autonomous organization under the Ministry of Skill Development and Entrepreneurship, Govt. of India invites sealed quotations from authorized firms/suppliers for supply and commissioning of machineries and other equipment for its Livelihood Business Incubation (LBI) Centre on Dairy Processing Industry at Dikhowmukh, Sivasagar.

I. General Details and Conditions

- Description: Supply, Erection and Commissioning of machineries and other equipment for Livelihood Business Incubation Centre on Dairy Processing Industry
- Location: Dikhowmukh, Sivasagar
- Estimated Cost: Rs. 52,00,000/- (inclusive of freight/transportation, taxes, charges, duty, transit insurance and installation)
- Purchase of Tender document: Rs. 2500/- (non-refundable) to be submitted at the time of submitting the tender through Demand Draft of Rs. 2500.00, in favour: **The Director, IIE, Payable at Guwahati.**
- Tender document may be downloaded from the website www.iie.gov.in
- Period of delivery and installation: 45 working days from the day receipt of work order.
- EMD: Rs.1,00,000/- (refundable) drawn in favour of: **The Director, IIE, Payable at Guwahati.**
- The other Terms and Conditions applicable to this tender have been incorporated in the tender documents.
- The Competent Authority reserves the right to reject all or any tender wholly or partly without assigning any reason whatsoever.
- Last date of submission the tender document : **28-12-2017**
- The Tender shall be submitted in accordance with the instructions and conditions and any tender not conforming thereto is liable to be rejected. The instruction shall form the part of the tender and contract.
- The tender shall be complete with all documents. The tender received without tender fee shall be rejected outright.
- The duly signed and stamped tenders shall be submitted at the address: **Indian Institute of Entrepreneurship Basistha Chariali, N.H-37 Bypass, Near Game Village, Lalmati, Guwahati : 781029**, in a sealed envelope superscripting **“TENDER FOR SUPPLY AND COMMISSIONING OF MACHINERIES AND EQUIPMENT FOR ITS LIVELIHOOD BUSINESS INCUBATION CENTRE ON DAIRY PROCESSING INDUSTRY”** including the following –
 - The forwarding letter of the tender
 - Tender bid Proforma
 - List of latest customers who have been supplied Plant & Machinery for similar Projects; The Customer Feed Back; detailed description of the system; catalogue containing detail technical specification; list of essential spares to be supplied; ISO certification if any; details of manufacturing facility available in-house; certificate of registration/proof of ownership along address; copy of pan card; income tax and sales tax certificates; certificate that the firm is not blacklisted by any Government/Private Organization; Certificate that the firm has no pending vigilance/CBI case; certificate

that the firm is not supplying the same item at lower rates quoted in the tender to any government institution during the past one year, as per fall clause adhered by DGS & D and other government organization.

- Demand draft for tender fee.
- Checklist

II. Scope of Work

- I. Type of Work: Supply and Commissioning of supply and commissioning of machineries and other equipment for Livelihood Business Incubation Centre on Dairy Processing Industry:

List of Machineries and Equipment for Dairy Processing

Sl. No.	Description	Qty	Unit	Technical Specification
1	Bulk Milk Cooler - 500 L	1	Nos.	<p>A. MILK TANK</p> <ol style="list-style-type: none"> 1. Rated Capacity Ltrs 500 2. Gross Capacity Ltrs 550 3. Material of Construction (AISI) AISI 304 Stainless Steel 4. Shape & Orientation Open Vertical Tank 5. Weight 110 kg 6. Thickness of Inner & Outer Shells 1.5 mm Inner and 1.5mm Outer 7. Number of Agitator 1 8. RPM of Agitator 23 rpm 9. CIP facility Manual, cleaning brushes would be provided 10. Thickness of insulation 50 mm 11. Efficiency 0.019 w.m/K 12. Facility to measure SS Calibrated Dip Stick (1 no.) volumewith Laminated Calibration Chart 13. Calibration Accuracy 0.50% 14. Surface Finish (Grits) 150 <p>B. REFRIGERATION UNIT</p> <ol style="list-style-type: none"> 1. Type of Expansion Direct Cooling DX Type 2. Make of Compressor Emerson /Equivalent 3. Model/Type of Compressor CR22 Emerson, Reciprocating 4. Size (Nominal HP) of compressor 1.50HP 5. Number of Compressors 1 6. Cooling Cap of Min 3653 Kcal/hr for each Compressor (Kcal/Hr) compressor 7. Make of Condenser Emerson /Equivalent 8. Type of Condenser Air Cooled 9. Number of Condenser 1 10. No. of Fans1 11. Overall dimensions (mm) 600 x 600 x 600 - 1 12. Total Weight (kg) 90 13. Type of Refrigerant R22 or as per requirement 14. Type of welding on Evaporator Laser Welding <p>C. DESIGN PARAMETERS:</p> <ol style="list-style-type: none"> 1. Ambient temperature consideration for design 46 ° C 2. Maximum cooling time considered for <ol style="list-style-type: none"> a) All milking 3.0 hrs b) Second Milking 1.5 hrs 3. Temperature range considered <ol style="list-style-type: none"> a) All milking 35°C to 4°C b) Second Milking 10°C to 4°C

				<p>D. ELECTRICALS Single Phase</p> <p>1. Connected load in watts & Amperes for:</p> <p>a) Compressor(s) 1100 watt / 3.25 - 4.0A</p> <p>b) Condenser Fan (s) 375 watt / 1.7 A</p> <p>c) BMC Agitator (s) 90 watt / 0.5 A</p> <p>2. Power Consumption (Kw/Hr) 1.5 Kw/hr</p> <p>3. Max. Surge Current Drawn by compressor 6.0A</p>
2	Cream Separator with Skim Milk Return system SSS - 500 LPH	1	Nos.	<p>Milk Separator - 500 LPH Bowl Speed - 7000 rpm.</p> <p>Fresh Milk Input - 30 To 40 Degree Celsius.</p> <p>Sour Milk Input - 25 To 30 Degree Celsius.</p> <p>Electric Motor - 110 V, 1p,60c/S, 0.5 hp.</p> <p>Dimension (Lxbxh) - (38 X 26 X 44.5) Inch/</p> <p>Weight - 155 Kg.</p> <p>This is a centrifuge rotating at very high speed to separate the fat and SNF. Both fat andSNF will be coming out separately. Parts will be of AISI 304 and the body is made of CastIron. The unit will be supplied with necessary tools and tackles for opening the bowl.</p>
3	Dump Tank - 200 L	1	Nos.	<p>The tank fabricated out of SS 304 of 2 mm sheet to receive milk. It will be standing onSS ball feet legs. The tank will be rectangular, horizontal shape and will be in sanitary construction.</p>
4	SS Pump 2.5 HP- 1000 LPH	1	Nos.	<p>PP Series Pump are manufactured with SS sheet pressed housing whereas hp1,hp2 & hp3 series pump are SS investment casting material is used SS 304.</p>
5	<p>A. Milk pasteurizer(auto): (4-65-72-80-4 deg. C)with SS 316 plates</p> <p>B. Hot Water Generator (Electrical Operated)</p> <p>C. Package Type RefrigerationSystem</p>	1	Nos.	<p>Milk Pasteurizer: 1000 LPH</p> <p>Temp. of Milk at inlet: 4° C</p> <p>Homogenization: 70°C</p> <p>Pasteurization temp.: 80° C</p> <p>Temp. of Milk at Outlet: 4° C</p> <p>Material of Gasket: NBR Food Grade</p> <p>Sections: Heating/Reg.1/Reg.2/Cooling</p> <p>Holding Time: 20 seconds</p> <p>The pasteurizer shall comprise of following:-</p> <p>Float Balance Tank : 100 Lit</p> <p>Milk Transfer Pump:Capacity : 3000 LPH</p> <p>Flow Controller (Mechanical)</p> <p>Plate Heat Exchanger (PHE) (4-65-80-40C) With Imported Plates</p> <p>SS Simplex Filter</p> <p>Auto Flow Diversion Valve</p> <p>Holding Section: 20 Sec. (In Tubes)</p> <p>Product S.S. Interconnecting Pipes and fitting</p> <p>Instrumentation & Control Panel (AUTO)</p> <p>Hot Water Generator to take care of hot water requirement of 1000 LPH milkpasteurizer. Hot water generator will be supplied with following std. accessories.</p> <p>1. Water softener with pump: 500 LPH & OBR 5000 Liters</p> <p>2. Water Tank with Level Indicator: 500 Liters, Fabricated from 3 mm, MS sheet</p> <p>1. Capacity: 7 TR</p> <p>2. Refrigerant: R – 22/ R 404a</p> <p>3. Compressor: Danfoss/ Emerson make</p> <p>4. Evaporating Temp. : -5 °C</p> <p>5. Condenser: Air Cooled</p>

				6. Chiller: BHE/Shell & Tube 7. Brine tank: Capacity: 500 Liters 8. Refrigeration controls: Expansion valve, Drier filter, Dual pressure gauge, cut out, Liquid line Service valve, and Anti-freeze thermostat, Suction & Discharge pressuregauges
6	Milk Storage Tank - 3000 L	1	Nos.	Inner Shell - 2/3 mm SS 304 Outer Jacket - 2 mm SS 304 Motor 2 hp, Agitator Speed - 40 rpm Gear Box - ALM – 90 Man hole door 450 mm dia. Light and sight glass Air vents assembly. Dial thermo meter Agitator with 1 hp motor
7	Platform Scale to Weight Can - 200 Kg (Digital)	1	Nos.	Weight Scale Capacity - 200 Kg
8	FFS Packaging Machine (Mech)- 1200 PPH@500 ml	1	Nos.	1200 PPH - 250 MI/ 500 MI/ 1000 MI Single Head Machine Weight - 800 Kg approx. Feeding System - Gravity Flow
9	Dahi Making - Incubation Tank -120 L	1	Nos.	Shell - 2 mm SS 304 Capacity – 60 L Insulation Thickness - 50 Mm Speed - 22 rpm Power - 0.5 hp Blm-50 Gear Shell Id - 600 dia Shell Height - 625 mm Dial thermo meter Agitator with 0.5 HP motor
10	Paneer Steam Operated Vat. - 100 L	1	Nos.	Shell - 2 Mm SS 304 Outer Jacket - 1.6 Mm SS304 Cap - 100 L Insulation Thickness - 50 mm Inner Vat: The Inner Vat should be made from minimum 2 mm thick stainless steelsheet conforming to AISI 304.-B - 1 No.
11	Paneer Manual Press	1	Nos.	Paneer Press Structure made by 51 mm Square Pipe Lift on 20 mm Ball Feet SS 304 Paneer Square Box made of Perforated 1.6 mm Thick Sheet with 5 mm Base SS Plate 20 mm Threaded Shaft which is run by 30 m shaft
12	Cooling Cabinet for Pouch 500 Litre (IBT)	2	Nos.	Skid Mounted Air cooler Chiller Glycol-outlet - 1 Degree Celsius 5 TR Unit Refrigeration Capacity to maintain the temp. of milk +4°C Compressor Model Scroll, Danfoss SM-147
13	SS 304 Piping along with Fittings, Unions, Supports Etc.	1	Lot	All interconnecting pipeline will use in SS 304 Grade
14	Electrical Panel with Wiring from Panel to Equipment to synchronized with above equipment	1	Lot	Panel will make in SS 304 outer body and inner wiring in-house and panel switch and else is used Simens and L&T InfoTech Company
15	Boiler			200 Kg/hr Non-IBR, Oil fired boiler
16	Installation & Miscellaneous expenditure			

III. ERECTION AND COMMISSIONING:-

- a) The firm shall erect and commission the machine as per the plant diagram of the Livelihood Business Incubation Centre
- b) The firm **shall arrange all necessary tools, tackles consumable, welding m/c, chain pulley blocks necessary labour force, technical personal for carrying out the erection, alignment and commissioning of the new machine** adhering all safety and security norms prevailing at IIE, Guwahati.
- c) Civil works pertaining to the erection and commissioning of the machine is to be carried out by the supplier
- d) **Supplier should be arranging suitable electric cable /wiring required for the machine form panel board to machine.** All cables to be neatly laid in cable trays.

IV. TRAINING: -

The firm should impart suitable training to Entrepreneurs of Dikhowmukh, Sivasagar for operation and maintenance of the machine during erection, commissioning at Dikhowmukh, Sivasagar.

V. SPARES:-

As per user requirement.

VI. SERVICES:-

Any other specific service required will have to be included in the scope of supply.

VII. MRLS FOR 02 YEARS & MANNUALS:-

- a) The supplier has to include manufacturer recommended list of spares and cost thereof for 2 years successful running of machine in their quotation. However the same will not be considered for finalization of order.
- b) The supplier shall give addresses of the firm whom brought out spares has been arranged.
- c) The supplier shall agree to provide service support during the life of the machine.
- d) The supplier shall provide sets of operation and maintenance of machine in English and one set of compact disc in PDF format.
- e) The supplier shall provide 2 sets of preventive maintenance of machine in English duly laminated on cardboard so that same can be hanged near the machine.

VIII. GUARANTEE/WARRANTY:-

Supplier should give guarantee for the satisfactory performance of the machine for a period of 24 months from the date of successful commissioning.

IX. TERMS & CONDITIONS

1. The rates quoted by you shall be considered final.
2. Warranty Period is 02 Years.
3. The Supplier should be on turn-key basis.
4. Lowest bidder however, may not be considered. It will depends on the quality of the product and past experience.
5. Supply of the items shall be within 10 days from the date of receipt of this work order.

6. Payment shall be made only after receipt of the above items in good condition and after submission of the valid bills through A/C payee cheque/RTGS/NEFT and will be released in the following terms & conditions:-
- (a). 40% of the total amount including GST will be paid as Advance Amount.
 - (b). 40% of the total amount including GST will be paid after successful delivery at the concerned LBI centre.
 - (c). 20% of the total amount including GST will be paid after successful installation and successful completion of operation of the machineries.

Sd/-
Director
IIE, Guwahati

Forwarding Letter Format
(To be provided in the official letter head of the bidder)

To,
The Director,
Indian Institute of Entrepreneurship
Guwahati, Assam

Subject: Supply and Commissioning of machineries and equipment for its Livelihood Business Incubation Centre on Dairy Processing Industry at Dikhowmukh, Sivasagar.

Dear Sir,

HAVING EXAMINED AND PERUSED THE FOLLOWING:

1. **General Details and Conditions**
2. **Scope of Work**
3. **LBI Tender Bid Proforma**
4. **Checklist**

We hereby submit our quoted rates valid for 90 days from the date of submission of tenders.

I/We agree:-

1. The tender document along with your letter of award or supply order shall constitute the bind contract between us and Indian Institute of Entrepreneurship, Guwahati.
2. In the event of failure to supply this item in full within the committed delivery period the order will be treated as cancelled.

SUPPLIER's SIGNATURE

Date:

Supplier Name & Seal

LBI Dairy Processing Tender Bid Proforma

Sl. No.	Description	Qty (in Nos.)	Specification	Rate (₹.)	Amount (₹.)
1	Bulk Milk Cooler - 500 L				
2	Cream Separator with Skim Milk Return system SSS - 500 LPH				
3	Dump Tank - 200 L				
4	SS Pump ½ HP - 1000 LPH				
5	Fully Automatic HTST Multi - Duty HTST Pasteurizer with Hot & Chilled System Complete in all aspect - 1000 LPH				
6	Milk Storage Tank - 1000 L				
7	Platform Scale to Weight Can - 200 Kg				
8	FFS Packing Machine - 1200 PPH				
9	Dahi Making - Incubation Tank -60 L				
10	Paneer Steam Operated Vat. - 100 L				
11	Paneer Manual Press				
12	Cooling Cabinet for Pouch 500 Litre				
13	SS 304 Piping along with Fittings, Unions, Supports Etc.				
14	Electrical Panel with Wiring from Panel to Equipment to Equipment to synchronized with above equipment				
15	Boiler				
16	Installation & Miscellaneous expenditure				
17	Training Cost				

**May add rows and columns if required

(Signature):

Date:

Official Seal:

Checklist

Sl. No.	Type of Document	Please Tick
1.	The forwarding letter of the tender	<input type="checkbox"/> YES <input type="checkbox"/> NO
2.	Tender bid Proforma	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	List of latest customers who have been supplied Plant & Machinery for similar Projects	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The Customer Feed Back	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	Detailed description of the system	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	Catalogue containing detail technical specification	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	List of essential spares to be supplied	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	ISO certification if any	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Details of manufacturing facility available in-house	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	Certificate of registration/proof of ownership along address	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	Copy of pan card	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	TIN certificate	<input type="checkbox"/> YES <input type="checkbox"/> NO
13.	GST certificate	<input type="checkbox"/> YES <input type="checkbox"/> NO
14.	Income tax and sales tax certificates	<input type="checkbox"/> YES <input type="checkbox"/> NO
15.	Certificate that the firm is not blacklisted by any Government/Private Organization	<input type="checkbox"/> YES <input type="checkbox"/> NO
16.	Demand draft for tender fee	<input type="checkbox"/> YES <input type="checkbox"/> NO
17.	Certificate that the firm has no pending vigilance/CBI case;	<input type="checkbox"/> YES <input type="checkbox"/> NO
18.	Certificate that the firm is not supplying the same item at lower rates quoted in the tender to any government institution during the past one year, as per fall clause adhered by DGS &D and other government organization.	<input type="checkbox"/> YES <input type="checkbox"/> NO

(Signature):

Date:

Official Seal: