

Tender Ref. No. : SRI/Tender/MSD-2023/1

TENDER DOCUMENT

**For
Supply, Installation & Commissioning
Of
Machinery for Making Bamboo Pulp and Sanitary
Napkin at Chandel District, Manipur**



**Shriram Institute for Industrial Research
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NOTICE INVITING ON-LINE TENDER

Director, Shriram Institute for Industrial Research (SRI) 19, University Road, Delhi invites **Online Tender**, in two bid system -

Technical Bid <https://forms.shriraminstitute.org/eTech> &
Commercial Bid <https://forms.shriraminstitute.org/eComm>

from eligible Indian Machine Manufacturers for the Supply, Installation, Commissioning and Training at site for the Machinery for making bamboo pulp and sanitary napkin at Chandel District, Manipur under the project entitled **“Facile method for the development of green and sustainable bamboo based feminine hygiene product and setting up of pilot plant at Chandel District Manipur”** sponsored by Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India.

Both Technical & Commercial Bid should be submitted in pdf format. The Commercial bid should be password protected. Only successful technical bidders will be asked to share the password of commercial bid, before opening of commercial bids.

The details are summarized below:-

1.	Tender Number	SRI/Tender/MSD-2023/1
2.	Purchaser	Shriram Institute for Industrial Research, Delhi.
3.	Usage of Machinery	The purchaser would place the machinery at Chandel District, Manipur at the site to set up a pilot plant for production of bamboo based sanitary napkins
4.	Scope of Tender	Supply, Installation, Commissioning and Training. To carry out pilot production using the supplied Machinery
5.	Locations of Supplies	The machinery is to be supplied at Chandel District in Manipur
6.	Specification/ Details of Machinery	The detailed specifications of machinery are specified in Tender and placed at Annexure-A
7.	Web page for Details of Tender	www.shriraminstitute.org The prospective bidders are advised to remain in touch with the website for any update in respect to this Tender.
8.	Start Date for Submission of Tender	Online Tender submission will start from 21st November, 2023 at 15.00 hours
9.	Last Date for Submission of Tender	Tender must be submitted online on or before 20th December, 2023 up to 17.00 hours. Late bids will be rejected
10.	Date of Opening of Technical Bid	The technical bid for the Tender shall be opened on 26th December 2023 at 16:00 hours at the address as under: Shriram Institute for Industrial Research, 19, University Road, Delhi
11.	Date of Opening of Commercial Bid	The date for opening Commercial Bid will be intimated to the technically qualified bidders separately

INSTRUCTIONS TO THE TENDERERS

The Tender shall be submitted in accordance with these instructions, as under:

1. Abbreviations:

Throughout this tender documents", the word/ term:

- a) **"SRI"** means Shriram Institute for Industrial Research
- b) **"Day"** means Calendar day
- c) **"Working day"** means Monday to Friday in week
- d) **"Tender"** means tender number SRI/Tender/MSD-2023
- e) **"Machine"** means the machinery & equipment including all associated tools/jigs/ fixtures/motors/controllers/software/ control panels/accessories as detailed in Annexure-A
- f) **"Purchaser"** means Shriram Institute for Industrial Research
- g) **"Bid"** means the document and financial details submitted by Bidder
- h) **"Bidder"** means the eligible and Indian Machine Manufacturers
- i) **"Tenderer"** means the eligible and Indian Machinery Manufacturers

2. Eligible Bidder:

The intending Bidder, in case of Indian Machinery Manufacturers shall submit a self-declaration on their letter-head, along with the Technical Bid, confirming that they are regular in manufacturing & supplying the similar machines, as asked in this tender, for the last five (5) years.

3. Location of Supplies: Purchaser will take delivery of machine **Chandel District, Manipur,**

4. Scope of Supplies:

- a) The material shall be supplied in compliance to the specifications mentioned in Annexure A of the Tender.
- b) After the supply of machine as mentioned in the Annexure A, the Bidder has to execute its installation & commissioning including any civil/electrical work required for machine at the designated location at Chandel District, Manipur
- c) The awarded Bidder shall have to depute expert(s) for installation & commissioning at site as and when instructed by SRI. No additional charges shall be payable by SRI, for any civil, electrical work, installation, commissioning and training of machines at Chandel district ,Manipur
- d) The supplier will be required to train the local operators, as decided by SRI for at least 7 days during installation & commissioning.
- e) Training should cover the machine's operations, maintenance, information about Do's & Don'ts as well as trouble shooting & all other areas which are necessary for smooth functioning of machine shall be provided to at least two persons designated by purchaser, at site, by the bidder.

5. Delivery

- a) The purchaser interested for complete delivery of machine by the bidder within sixty (60) calendar days from the date of issue of supply order. However, the bidders have an option to submit the best delivery time before 60 days. Under any circumstances, delivery should not be made without receipt of delivery instructions from SRI.
- b) The material shall be inspected at works by the purchaser and bidder shall be responsible for any damage during the transit of machine to place of delivery as given in delivery instructions.

6. Warranty/After Sales Services

- a) The equipment shall be warranted for any manufacturing defect for a period of 12 months from the date of successful completion of installation and commissioning at site.
- b) Should any part or parts fail or proved defective within the period specified above, owing to defect in design, material or workmanship, the supplier will have to replace them at the place of installation free of all charges.
- c) During the warranty period, expert(s) shall be deputed at site by the awarded Bidder whenever found essential and which cannot be undertaken locally or by the SRI experts including rectifying any defect / malfunctioning of plant & machinery. The cost of deputation of expert(s) and any other associated expenditure shall be borne by the awarded Bidder.

7. Manuals and Technical Documents:

The awarded Bidder shall provide technical documents like installation manual, operation and maintenance manual etc.

8. Tender Documents:

Tender document is free of cost and can be downloaded from our website www.shriraminstitute.org from **21st November, 2023 to 20th December, 2023**. At any time prior to the deadline for submission of online bids, the Purchaser may amend the Bidding Documents by issuing addendum/corrigendum. The prospective bidders are advised to remain in touch with the website for any update in respect of this Tender.

9. Submission of Tender:

All the columns of the tender shall be duly, properly and exhaustively filled in the format. Bidder is allowed to quote the commercials for machines partially.

Two separate bid should be submitted **online**.

- Technical Bid <https://www.shriraminstitute.org/Tender-eTech.pdf>
- Commercial Bid <https://www.shriraminstitute.org/Tender-eComm.pdf>

10. Financial Bid Submission:

Bidder shall take into account of all costs including Packing, Freight to Chandel District, Manipur, insurance, civil, electrical, installation, commissioning and training cost in the Commercial Bid. The bidder shall be responsible for any loss/ damage to material during transportation to the designated location.

11. Last Date for ONLINE Submission of Tender: 20th December, 2023

12. Opening of Technical Bid:

The Technical Bid of Tender will be opened at Shriram Institute for Industrial Research 19, University Road, Delhi on **26th December 2023 at 16:00**.

13. Opening of Commercial Bid:

The Commercial Bid of only technically qualified bidders will be opened on the stipulated due date. The date & time for opening of Commercial Bid shall be intimated to the technically qualified bidders through email, after the evaluation of Technical Bid.

14. Validity of Tender:

The Tender shall be valid for a period of 60 days from the date of opening of the Technical Bid of Tender. Terms and financial details submitted in the bid shall be treated as firm during the said period of 60 days.

15. Pre-dispatch Inspection:

A pre-dispatch inspection by technical team of purchaser may be carried out at bidder's site of manufacturing machines.

16. Delivery Time:

- a) The Bidder shall indicate the period within which the ordered quantity will be supplied.
- b) The awarded Bidder shall, within a week from the date of receipt of communication of acceptance of quotes from purchaser shall intimate his acceptance of the order. The awarded bidder shall complete supplies strictly as per the accepted delivery period.

17. Payment:

- a) The 80% payment of total bill will be made by the purchaser by crossed account payee cheque/RTGS/NEFT on submission of following documents:
 - i. Signed commercial Invoice-two copies certifying that the goods are exactly as per the purchase order and the specification quoted.
 - ii. Proof of delivery of the consignment to Chandel District, Manipur.
- b) Balance 20% order value shall be released after successful installation, commissioning of equipment at site and successful trial and training.

18. General Conditions of Contract:

RIGHT OF OWNER TO ACCEPT OR REJECT TENDER

- a). The right to accept the tender will rest with the Owner. The Owner, however, does not bind itself to accept the lowest tender, and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever.
- b). Tenders in which any of the particulars and prescribed information are missing or are incomplete in any respect and/or the prescribed conditions are not fulfilled are liable to be rejected.

RIGHT OF OWNER TO DETERMINE / TERMINATE CONTRACT

- a) Owner shall, at any time be entitled to determine and terminate the contract, if in the opinion of the Owner the cessation of the work becomes necessary owing to paucity of funds or for any other cause whatsoever, in which case, the cost of approved materials at the site at current market rates as verified and approved by SRI and of the value of the work done to date by the contractor shall be paid for in full at the rates specified in the contract.

OPERATION OF CONTRACT: Regardless of the place of contracting, place of performance or otherwise, this Agreement, and all amendments, modifications, alterations, or supplements, thereto shall be governed by the laws of India and respective state laws for the nature, validity and interpretation thereof.

EXECUTION OF WORKS: All the works shall be executed in strict conformity with the provisions of the contract documents and with such explanatory detailed drawings, specifications, and instructions as may be furnished from time to time to the contractor by the SRI whether mentioned in the contract or not.

19. SPECIAL CONDITIONS OF CONTRACTS (SCC):

Force Majeure

•Circumstances leading to force majeure

- (a) Act of terrorism;
- (b) Riot, war, invasion, act of foreign enemies, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection of military or usurped power;

(c) Ionizing radiation or contamination, radio activity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive assembly or nuclear component;

(d) epidemics, earthquakes, flood, fire, hurricanes, typhoons or other physical natural disaster, but excluding weather conditions regardless of severity; and

(e) freight embargoes, strikes at national or state-wide level or industrial disputes at a national or state-wide level in any country where Works are performed, and which affect an essential portion of the Works but excluding any industrial dispute which is specific to the performance of the Works or the Contract.

For the avoidance of doubt, inclement weather, third party breach, delay in supply of materials (other than due to a nationwide transporters' strike) or commercial hardship shall not constitute a Force Majeure event.

Notification of Force Majeure Contractor shall notify within [10(ten)] days of becoming aware of or the date it ought to have become aware of the occurrence of an event of Force Majeure giving full particulars of the event of Force Majeure and the reasons for the event of Force Majeure preventing the Affected Party from, or delaying the Affected Party in performing its obligations under the Contract.

Payment in case of termination due to Force Majeure: The Contract Price attributable to the Works performed as at the date of the commencement of the relevant event of Force Majeure. The Contractor has no entitlement and Owner has no liability for: a) Any costs, losses, expenses, damages or the payment of any part of the Contract Price during an event of Force Majeure; and b) Any delay costs in any way incurred by the Contractor due to an event of Force Majeure. Time extension for such cases will be worked out appropriately.

20. Jurisdiction:

In the event of any dispute the legal matter shall be subjected to the jurisdiction of Delhi Court only.

We confirm with our acceptance to the instructions (S.No-1 to 20 above) as given above.

BIDDER'S NAME & SIGNATURE WITH SEAL

ANNEXURE-A

Technical Specifications of Machinery Required:

1. Chipper: One no.

Parameters	Requirements
Capacity	200-300 Kg/hr
Input size	Up to 100 mm log
Output size	15-25 mm chip
Motor	7.5 HP ,3 phase
Blade	4 nos.

2. Digester: One no.

Parameters	Requirements
Capacity (Volume)	1.5 M3
MOC	SS304L
Thickness	12 mm
Frame	MS
Working pressure ,Kg/cm ²	8
Design pressure, Kg/cm ²	15
Working temperature ° C	160-170

3. Boiler: One no.

Parameters	Requirements
Type	Non IBR Recovery Boiler
Steam Evaporation capacity	400 -500kg/ hr
Fuel	Wood/diesel

4. Bleaching Tank: 2 nos.

Parameters	Requirements
Capacity (Volume)	1 M3
MOC	SS304L
Thickness	4 mm
Agitator	required
Motor	3 HP
Steam heating	Required

5. Hydro-extractor: one no

Parameters	Requirements
Capacity	30 Kg dry weight)
MOC	SS

6. Chemical Recovery Unit : One no.

(For recovery of chemicals from black liquor): one no.

Capacity: 500-700 litre black liquor

It will include following items:

Item	Function
Screw press	Recovery of black liquor
Black liquor storage tank	Black liquor storage
Evaporator	Concentration of black liquor to >65 % solid content
Dissolving Tank	Dissolution of molten smelt in water to form green liquor
Causticizing Tank	Reaction of green liquor with lime (Ca O) to form white liquor
Lime kiln	Heating calcium carbonate to form calcium oxide for reuse

7. Drier: one no

Parameters	Requirements
Capacity	60-70 KG/ hr
MOC	SS 304
Length	3-4 meters

8. Pulverizer: One no.

Parameters	Requirements
Capacity	20-30 KG/ hr
Structure MOC	SS 304
Motor	2 hp, single phase 220v
Motor make	Crompton greaves

9. Absorbent Core Pressing Machine: 3 nos

Parameters	Requirements
Capacity	300-400 pieces/hr
Structure MOC	MS painted
Dies	4 nos. 240 mm -2 set -2 set

10. Sealing Machine: 3 nos.

Parameters	Requirements
Capacity	300-400 pieces/hr
Table structure	MS painted
Table foundation	8-10 gauge painted
Die MOC	Aluminum
Heating with control panel	To be provided

11. UV Chamber: One no.

Parameters	Requirements
Capacity	2100 litre
MOC	SS

ANNEXURE-B

FORMAT & REQUIREMENTS FOR SUBMITTING TECHNICAL BID

- 1. **Tender Ref. No:** SRI/Tender/MSD-2023/1
- 2. **Name of Bidder:**
- 3. **Complete office address of Bidder:**
- 4. **Confirmation of acceptance of Technical Specifications for the supply of machine:**

Sl. No.	Tender requirements	Quantity	Compliance (Yes/No)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

- 5. PAN of bidder (self-attested copy to be enclosed)
- 6. VAT/ CST/ TIN / GST registration number of bidder (self-attested copy to be enclosed)
- 7. Delivery period after receipt of supply order from purchaser
- 8. Copies of purchase orders or contracts or invoices of similar nature or client list in the last five years.
- 9. The Bidders shall furnish complete Technical details of machine/ equipment/ material for the machine offered to supply through the participation of this tender (use separate sheet, if required, to elaborate the details of technical specifications)
- 10. Technical Literature of machine(s) with particular reference to the model of machine proposed to supply against this tender along with reference of website to assess the further features, if required.

I/We as bidder certify that:

- a. The tender shall remain valid for acceptance for 60 days from the date of opening the Technical Bid of the tender.
- b. Agree to offer services for warranty on the machine(s) supplied through this tender.
- c. Agree to impart onsite training to the designated personnel of purchaser for stipulated no. of working days mentioned in the tender.

- d. No price of any Machine/ Equipment/ Spares/ Accessories is given in Technical Bid.
- e. All above machines & equipment are provided with strong base/ safety features/ curtains/ enclosures, etc. wherever applicable.

All consumables, electrical and electronic parts of the product conform to international standard(s).

Name & Signature of the authorized bidder with stamp

Contact details of the bidder signing the tender.

Name.....	Designation.....
Phone (office).....	Phone (Mobile).....
E mail	

- e. Agree that the offer price is valid for a period of 60 days from the date of opening of technical bid of this tender.

Further confirm that we agree with the terms and conditions specified in Tender and if selected, the execution of supplies would be made in compliance.

Name & Signature of the authorized bidder with stamp

Contact details of the bidder signing the tender.

Name..... Designation.....

Phone (office)..... Phone (Mobile).....

E-Mail