



केन्द्रीय रेशम प्रौद्योगिक अनुसंधान संस्थान  
केन्द्रीय रेशम बोर्ड

(वस्त्र मंत्रालय- भारत सरकार)

बी.टी.एम. नेआउट मडिवाला बेंगलूरु- 560068

**CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE**  
**CENTRAL SILK BOARD**

(Ministry of Textiles - Govt. of India)

B.T.M. Layout, Madivala, Bengaluru-560068

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No.CSB/CSTRI/4(60)/2022-Stores

Date : 28.09.2022

To

As Per the Enclosure

Sir,

Sub: Inviting Quotations for procurement of **SILK HANK DRYING MACHINE** -  
Reg.

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With reference to the subject cited above, I am to inform that this Institute invites sealed quotations for supply of **Silk Hank Drying Machine** as mentioned below:-

#	NAME OF THE EQUIPMENT	QTY
1	Silk Hank Drying Machine (As per the specification enclosed)	1 No.

**TERMS & CONDITION :**

1. The last date for submission of the sealed quotation is **20.10.2022 at 3.30 p.m.**
2. The quotations should be submitted to **Officer Incharge/Scientist 'D', CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE, B.T.M.LAYOUT, MADIVALA, BANGALORE-560 068.** The quotation should be superscribed with enquiry letter no. and date of opening of the quotation.
3. The rate quoted by the firm should be valid for **180 days**. The equipment should be supplied within **120 days**.
4. The bidder has to furnish the basic rate, excise duty (if any), GST (if any), Freight Charges including Insurance (if any), Packing & forwarding charges (if any) Erection & Commissioning charges(if any) any other taxes/duties/levies (if any) in the quotation.
5. The Supplier shall provide Warranty/Guarantee valid for a minimum period of 12 months from the date of installation of the equipment / machineries. Any defects noticed in the equipment /machineries which is unintentional shall be set right by the supplier at free of cost for good performance of the equipments

P.T.O.

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6. The performance security equivalent to 3% of the total contract value in the form of Bank Guarantee issued by any Nationalized Bank which shall be valid till three months after the expiry of the Warranty period should be furnished to this Institute within 10 days from the date of receipt of purchase order in the prescribed format
7. The bidders should submit the Bank Details i.e. Bank A/c. No., Bank Name, Branch, IFSC code. Mobile No. email ID Etc. along with quotation
8. The quotations will be opened at 4.00 p.m. on 20.10.2022 in the presence of representative of agency who choose to be present.
9. Interested firms can get the **Silk Hank Drying Machine** details, if required, from the scientists of Wet Processing Division of CSTRI, CENTRAL SILK BOARD, MADIVALA, Bengaluru from **09.30 AM to 6.00 PM**
10. The working of **Silk Hank Drying Machine** is subjected for inspection during the manufacturing process.
11. Pre-dispatch inspection of the **Silk Hank Drying Machine** will be carried out by the scientists.
12. **Silk Hank Drying Machine** has to be supplied after the incorporation of the points suggested during pre-dispatch inspection.
13. No advance payment will be made. The payment will be released only after delivery of the equipment in good condition as per our specification, Erection and commissioning.
14. GST-TDS will be deducted, if applicable
15. Officer Incharge/Scientist 'D', CSTRI, CSB, Bengaluru reserves the right to accept any quotations or reject all the quotations without assigning any reason. The decision of the Officer Incharge/Scientist 'D' is final

Yours faithfully,

Sd/-

(डॉ.वाई.सी.राधालाक्ष्मी. Dr. Y.C. Radhalakshmi)  
प्रभारी अधिकारी/ वैज्ञानिक डी / Officer I/C/ Scientist-D

Copy to

1. Notice Board
2. Asst. Director(Comp.) to upload in CSB/CSTRI Web site & e-publish
3. Copy Scientist 'D', Wet Processing section, CSTRI for information.

(डॉ.वाई.सी.राधालाक्ष्मी. Dr. Y.C. Radhalakshmi)  
प्रभारी अधिकारी/ वैज्ञानिक डी / Officer I/C/ Scientist-D

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**SPECIFICATIONS OF SILK HANK DRYING MACHINE**

The main specifications of the silk hank drying machine shall be as follows:

**1. FRAME:**

- a) The bottom frame of the silk hank drying machine shall be made from 16-gauge 40 mm square M.S. Tubes, Flats etc.
- b) The top frame shall be fabricated by 16 gauge 25 mm square M.S. Tubes, Flats etc.,
- c) Height of reel axel from the floor shall be 980 mm.

**2. BODY STRUCTURE:**

- a) The reel shall be covered with 20 gauge M.S sheet covering all sides, top and bottom. At the bottom of the frame 24 gauge stainless steel sheet (strengthened with M.S Flat strips on the inside) shall be used to cover the legs of the silk hank drying machine completely.
- b) Tilting spherical transparent windows shall be made of 2.5 mm acrylic sheet cover, fabricated on M.S. or FRP moulded flat structure, fitted above hank drying swift with rubber bush stoppers at rear end to avoid loss of temperature.
- c) 40 mm X 14G M.S. Sq. pipe guard shall be provided at the end of the machine for safety purpose.

**3. HUMIDITY EXHAUSTERS WITH FAN:**

- a) The humidity vent shall have square conical bottom of 450 X 125 mm dimension and 900 mm total height.
- b) One exhaust along with fan to be provided made from 24 gauges C.R. sheet having 125 mm square or round funnel type exhaust fitted with 0.25W fan.
- c) A sliding baffle plate shall be provided at the top of the cone to control exhaust of humid air for proper drying.

**4. MOUNTING OF THE MACHINES:**

The entire silk hank drying machine shall be mounted on 75 X 40 mm, 10 gauge, (ISMC 75) M.S. Channels.

**5. MOTOR AND DRIVE ARRANGEMENT:**

- a. The Drive arrangement structure shall be fabricated by 50 X 50, 6mm M.S. Angle and suitably covered by 20 gauge M.S.Sheet.
- b. 1 H.P (0.75KW) 960 RPM, 380/440 volts, 3 phase, 50Hz induction Motor along with compatible Variable Frequency Drive preferably from ISO 9000 certified companies shall be provided with the machine.

**6. TRANSMISSION:**

- a) Fitted with V belt, 5/8" pitch chain, M.S. Sprocket, with 3 module 50 Teeth (156 mm diameter) M.S. Gears, EN-8 Metal shaft fitted with 25 mm pillow block bearing.
- b) All moving parts in the machine such as gears, 'V' pulleys are tightened by high tensile fasteners.

**7. MAIN SHAFT:**

The main shaft shall be of 25 mm diameter M.S. bright rod with self aligned pillow block bearings. The drive is transferred through 480mm diameter, 25 mm width, and cast iron drum wheel.

### 09. BRAKE:

The brake wheel shall be fixed on reel shaft. The U shape brake shoe fitted on long lever and loaded with effective springs at the rear end to achieve the following objectives:

- i. The reel shall come to a halt with minimum rotations and should not rotate backwards.
- ii. The engaging and disengaging drive shall be very effective.

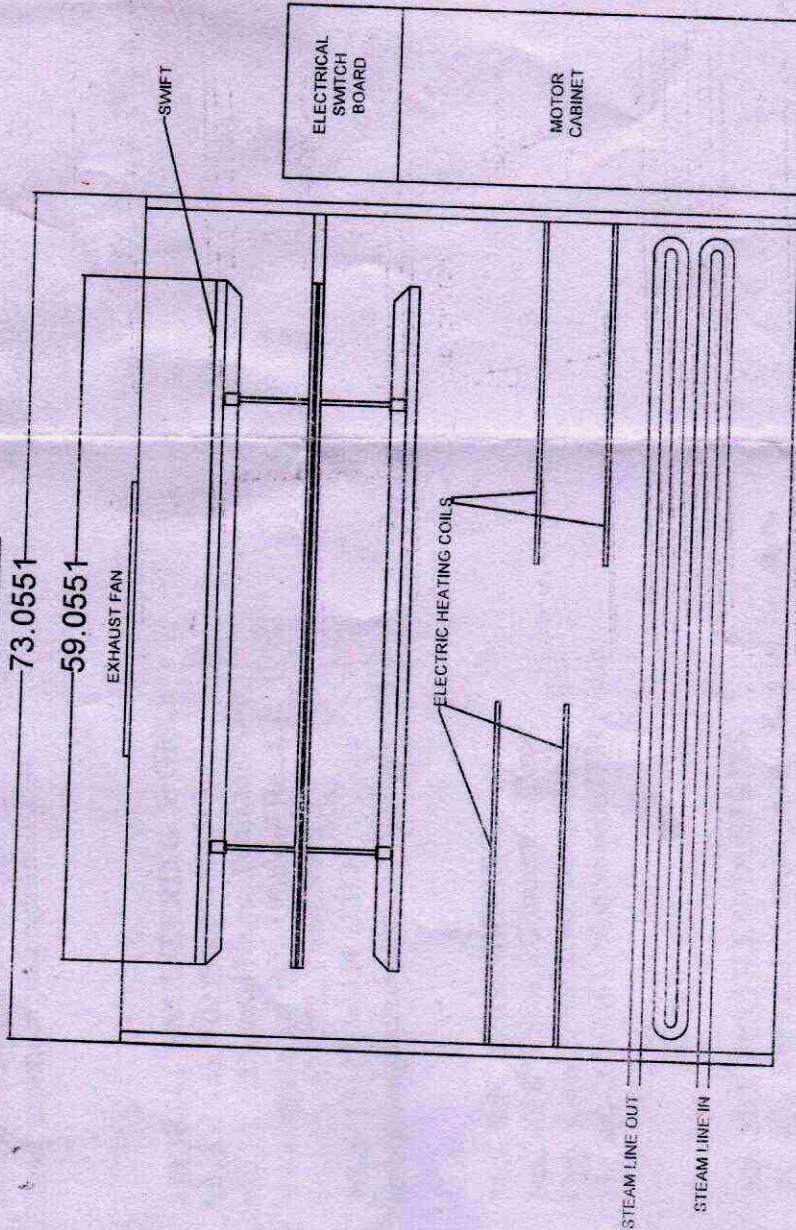
### 10. HEATING SYSTEM:

Two types of Heating System i.e. Boiler-Steam-pipe based and electrical heater based shall be fixed in the equipment.

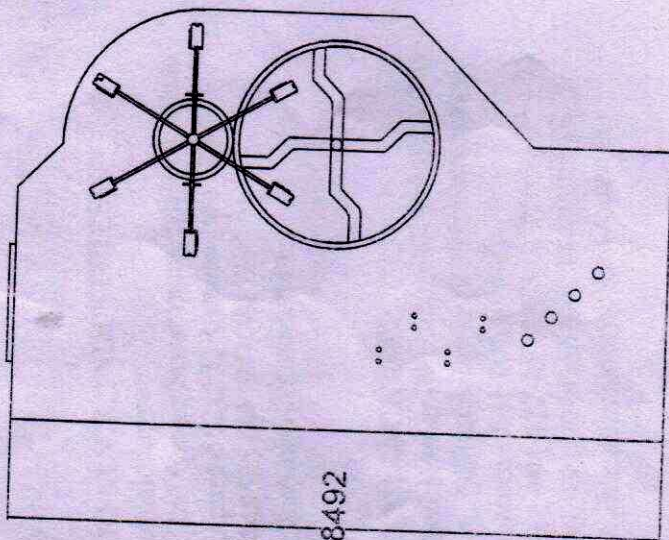
- i. **Boiler-Steam Pipe- Heating system:** Steam heating coils of 20N.B X 2.8mm stainless steel 316 tubes & 1½ inch drain tapping outlet and steam inlet valve made of 316 stainless steel(SS) flanges with provision for indirect steam inlet with SS flanges & indirect pipe should have a steam trap.
- ii. **Electrical coil Heating system:** Electrical heating coils (4 no.s) of 0.5KW each are to be fitted with electrical panel at the machine side to provide controlled heating system (upto 100°C).

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# SILK HANK DRYING MACHINE



FRONT VIEW



SIDE VIEW

NOTE: All dimensions are in inches