

EXPRESSION OF INTEREST



उ.पू.ह.ह.वि.नि.

NEHHDC

North Eastern Handicrafts and Handlooms Development Corporation Limited

(Ministry of DoNER Govt. of India)

Crafts Promotion & Experience Centre,
Garchuk, Pamohi Road, Guwahati - 781035

Website: www.nehhdc.com

Email: md.nehhdc@gmail.com

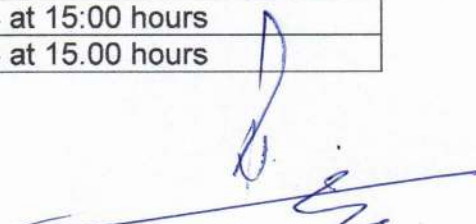
File No: NEHHDC/CO/P&A/2023-24/08/3048

Date: 14-05-2024

NOTICE INVITING EoI

Request for Expressions of Interest (EoI) for the "OPERATION & MAINTENANCE OF ERI SILK SPINNING MILL AT INTEGRATED TEXTILE PARK, Mushulpur, BAKSA, ASSAM."

Name of the work	OPERATION & MAINTENANCE OF ERI SILK SPINNING MILL AT INTEGRATED TEXTILE PARK, BAKSA, ASSAM
Date of availability of EoI document at NEHHDC website (www.nehhdc.com)	14.05.2024
Date of availability of EoI document at CPP Portal (https://eprocure.gov.in/epublish/app)	14.05.2024
Start date of offer of interest submission	15.05.2024
Program briefing meeting	24.05.2024
Last date of offer of interest submission	29.05.2024 at 15:00 hours
Opening of offer of interest	30.05.2024 at 15:00 hours


Managing Director
North Eastern Handicrafts & Handlooms
Development Corporation Ltd. (NEHHDC)

DISCLAIMER

The information contained in this Request for Expressions of Interest (Eol) or subsequently provided to Applicants, whether verbally or in documentary or any other form by or on behalf of the Implementing Authority, NEHHDC, Craft Promotion Center, Garchuk, Pamohi Road, Guwahati-781035, is provided to Applicants on the terms and conditions set out in this EOI and such other terms and conditions subject to which such information is provided.

This Eol is not an agreement and is neither an offer nor invitation by the Implementing Authority to the prospective Applicants or any other person. The purpose of this Eol is to provide interested parties with information about the **PPP Project**, to gather information about all interested firms, and to record any concerns of interested firms. The Expression of Interest shall not be used to either shortlist or disqualify applicants. Any entity which has not submitted Expression of Interests shall also be allowed to participate in the Request for Qualification stage according to terms and conditions that may be specified thereof.

This Eol includes statements, which reflect various assumptions and assessments arrived at by the Implementing Authority in relation to the PPP Project. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require.

This Eol may not be appropriate for all persons, and it is not possible for the Implementing Authority, its advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this Eol. The assumptions, assessments, statements and information contained in this Eol may not be complete, accurate, adequate or correct. Each Applicant should therefore conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this Eol and obtain independent advice from appropriate sources.

Information provided in this Eol to the Applicant(s) is on a wide range of matters, some of which depends upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. None of the Implementing Authority, its employees, or officers accepts any responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein. The Implementing Authority, its employees and officers make no representation or warranty and shall have no liability to any person, including any Applicant or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Eol or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the Eol and any assessment, assumption, statement or information contained therein or deemed to form part of this Eol or arising in any way by the participation in this prequalification process.

The Implementing Authority, its employees or officers, likewise accept no liability of any nature whether resulting from negligence or otherwise howsoever caused arising

from reliance of any Applicant upon the statements contained in this EoI. The Implementing Authority may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this EoI. The Implementing Authority reserves the right to discontinue the process without assigning any reason whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Expression of Interest including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the Implementing Authority or any other costs incurred in connection with or relating to its Expression of Interest. All such costs and expenses will remain with the Applicant and the Implementing Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Expression of Interest, regardless of the conduct or outcome of the procurement process.

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SECTION 1 – Introduction

- 2.1 North Eastern Handicrafts and Handlooms Development Corporation (NEHHDC), incorporated in 1977, is an organisation that attempts to develop and promote the indigenous crafts of the region by connecting craftsmen to prospective markets and consumers and generating economic, cultural and social opportunities for creators while adding cultural value for consumers. The corporation is under the administrative control of the Ministry of Development of North Eastern Region (DoNER), Government of India. It offers a range of products from all the eight North Eastern states namely Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.
- 2.2 The organisation procures handicrafts and handlooms from artisans and weavers across the region and retails the same through its chain of "Purbashree" Emporia located at Shillong, Guwahati, Kolkata, New Delhi, Bangalore and a Sales Promotion Office at Chennai. Moreover, it promotes the products at various national and international markets through exhibitions and trade fairs. The Corporation also conducts training programmes and seminars for skill and knowledge up gradation of the artisans and weavers.
- 2.3 Recently, NEHHDC is setting up an Eri Silk Spinning Mill at Mushalpur, Dist. Baksa, Assam which is likely to be ready for operation by July'2024. The details of which are furnished in Annexure A & B of this document.

The objective and purpose of this EOI are enshrined in the subsequent clauses.

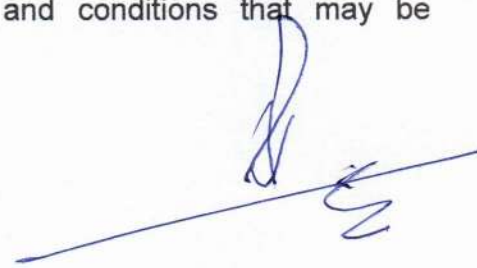
SECTION 2 - Objective of this Eoi

- 2.1 This Expression of Interest intends to communicate, receive desired information and concretize on Operation and Maintenance of Eri silk spinning mill, various models of engagement of Public private partner possible, roles and responsibilities of different stakeholders, standards of service level delivery and benchmarking etc, and thereafter, short listing of interested Public-private-partners/applicants for aforementioned purposes.
- 2.2 Subsequently, an RFP (REQUEST FOR PROPOSAL) will be issued on the basis of above, and suitable vendors/partners will be selected to operationalize the project.
- 2.3 This EOI is for deciding/finalizing scope and extent of short listing of private agencies/partners which will help NEHHDC in organizing and starting Eri Silk textile manufacturing plant and supply system.

- 2.4 Private Agencies of good standing and reput e having skills, capacities and experience in providing similar services are invited to submit their proposals to NEHHDC through email (md.nehhdcl@gmail.com) subjected with "Offer of Interest for OPERATION & MAINTENANCE OF ERI SILK SPINNING MILL AT INTEGRATED TEXTILE PARK, BAKSA, ASSAM".

SECTION 3 - Purpose of issuing this Eol

- 3.1 The EOI is prepared in terms of the Govt. of India's latest Public-Private-Partnership Rules and Regulations, as amended where a conflict exists, the PPP Rules and Regulations shall prevail.
- 3.2 The purpose of issuing the Eol is to:
- Disseminate information about the Project;
 - Gather information about all interested firms; and
 - Record concerns of the interested firms.
- 3.3 The Expression of Interest may be used by the Implementing Authority to better determine private sector interest in the project, and may also be used to seek suggestions from private entities on how best to design the Project scope or other parameters of the PPP Project.
- 3.4 The Expression of Interest shall not be used to either shortlist or disqualify applicants. Any entity which has not submitted an Expression of Interests shall also be allowed to participate in the **RFQ (Request for Quotation)** stage according to terms and conditions that may be specified thereof.



SECTION 4 - Scope of Work/ Service

- 4.1 NEHHDC is proposed to be developed with the participation of Public-Private-sector Partners on Operation & Maintenance (O&M) Model to fulfil the requirement of running Eri Silk spinning mill.
- 4.2 The exact type and scope of involvement and responsibilities would be decided before issue of detailed RFP. However, a proposed model of involvement is discussed in the following paragraphs.
- 4.3 In brief, the proposed model envisages NEHHDC's involvement in providing space building, plant and machinery and other basic infrastructural facilities, whereas Private Partner would be responsible for consumables of the equipment, technical and other manpower and for running and maintaining the plant. **The monitoring would be in the hands of NEHHDC**, which will be exercised through designated authority/agency/committee.
- 4.4 The Public-private-partner will be responsible for the entire operation and management of the Eri Silk manufacturing under the supervision of NEHHDC.
- 4.5 The details of space building, plant and machinery and other basic infrastructural facilities are disclosed in Annexure A & B of the EoI.

SECTION 5 – Proposed roles and responsibilities

5.1 Private Sector:

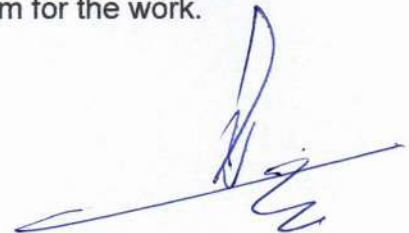
- (i) To provide required manpower and consumables.
- (ii) Develop and operate the plant as per various National and International standards.
- (iii) Recruit/Staff human resource for operation and maintenance of the plant.
- (iv) Maintenance and up gradation of the plant.
- (v) Adhere to its all contractual obligation.
- (vi) No other activities of any kind will be permitted in the place or on the premises other than the works stipulated in the EoI.
- (vii) The contractor will be responsible for the entire safety and security of plant, staff, material deployed by him for the work and disposal of waste.

5.2 **NEHHDC:**

- (i) Provide space for set up of plant (**Details in Annexure A**).
- (ii) Provide plant & machinery to undergo operations (**Details in Annexure B**)
- (iii) Connect the plant to water, power supply, and sewerage network with outside campus network.

SECTION 6 – Credentials

- 6.1 Applicants having experience in this field should attach the credentials along with EoI. The Applicant will be responsible for any lapses arise out of non-compliance of State rules concerning Income Tax, GST etc. and ESIC or EPF/ Insurance of his employees and all other prevailing rules.
- 6.2 The applicant shall not employ any labour below the age of 18 years and shall pay his labourers not less than the wages paid for similar work. The contractor should pay minimum wages to the workers working under him as per the revised rates for various scheduled employments as per the revised guidelines issued by The Payment of Wages Act, 1936, The Minimum Wages Act, 1948, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976 etc.
- 6.3 Contract is liable for termination if the work done is not satisfactory, with notice as per rules. The contract will be responsible for the entire safety and security of man, material deployed by him for the work.



SECTION 7 – Eligibility Criteria

- 7.1 Only Indian originated firms will be eligible for the said project to apply Eol.
- 7.2 The Applicant company should have been in existence for last **three/ five years** from the last date of submission of offer of interest.
- 7.3 The applicant company should be able to submit necessary documentary evidence for successfully execution of at least one similar works.
- 7.4 The Applicant company should have not been blacklisted by any state or central government or agency. The affidavit to this effect needs to be submitted with the offer of interest.
- 7.5 The agency should preferably not be under litigation with any state or central government organization or agency in any court of law. An affidavit making discloser of such litigation or free from litigation status must be enclosed with the offer of interest.
- 7.6 The Applicant, to qualify for short listing, shall submit a power of attorney authorizing the signatories of the offer of interest to commit each member of the partnership / consortium / joint venture, if applicable.
- 7.7 Memorandum of Understanding shall have to be provided in case the bidder comprises of partnership / consortium / joint venture. Details of the intended participation by each member shall be furnished with complete details of the proposed division of responsibility and corporate relationship among the individual members.
- 7.8 The applicant shall submit full details of his ownership and control or, if the applicant is a partnership, joint-venture or consortium, full details of ownership and control of each member thereof.
- 7.9 Applicant or members of a partnership / consortium / joint venture, shall submit a copy of PAN card no. under Income Tax Act.
- 7.10 Applicant must submit self-attested copies of all necessary documents.
- 7.11 Canvassing or offer of an advantage or any other inducement by any person with a view to influencing acceptance of an offer of interest will be an offence under laws of India. Such action will result in the rejection of the offer of interest, in addition to other punitive measures.

SECTION 8 – One Offer of Interest per bidder

- 8.1 Each applicant shall submit only one Eol either by himself or as a partner in joint-venture or as a member of consortium. If, an Applicant or if any of

the partner in a joint venture or any of the members of the consortium participate in more than one offer of interests, the offer of interests are liable to be rejected.

SECTION 9 - Eol Document

9.1 Contents of EOI Document:

The Expression of Interest Document has been prepared for the purpose of inviting interested bidders for short listing of agencies. This document comprises of following:

- A. Notice inviting Expression of Interest.
- B. Detailed Document of Eol comprising the terms and conditions.
- C. Forms to be filled and submitted by the applicants/bidders (Scheduled – I)
- D. Detailed annexure highlighting the land details and plant & machinery details (Annexure A & B).

- 9.2 The bidder is expected to examine all instructions, Forms, Terms and Conditions in this Eol document. Failure to furnish all information required by the Eol document or submission of Eol not substantially responsive to the Eol document in every respect will be at the bidder's risk and may result in rejection of his offer of interest. The bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of the Eol document.



SECTION 10 - Clarification on Eol document

- 10.1 In case the bidder has any doubt about the meaning of anything contained in the Eol document, he shall seek clarification from the Office of "NEHHDC, Crafts Promotion & Experience Centre, Garchuk, Pamohi Road, Guwahati – 781035" not **later than one week before submitting his Offer of Interest**. Any such clarification, together with all details on which clarification had been sought, will be copied to all bidders. All communications between the bidder and the Office of "NEHHDC, Crafts Promotion & Experience Centre, Garchuk, Pamohi Road, Guwahati – 781035" shall be carried out in **writing/email** (md.nehhdcl@gmail.com).
- 10.2 Except for any such written clarification by the NEHHDC, which is expressly stated to be an addendum to the Eol document (Section 15.3) issued by NEHHDC, no written or oral communication, presentation or explanation by any other employee of NEHHDC shall be taken to bind NEHHDC under the contract.

SECTION 11 - Preparation of offer of interest

- 11.1 Language: The offer of interest and all accompanying document shall be in English. In case any accompanying documents are in other languages, it shall be accompanied by an English translation. The English version shall prevail in matters of interpretation.
- 11.2 Documents comprising the Offer of Interest: EOI document issued for the purposes of EOI and any amendments issued shall be deemed as incorporated in the offer of interest.
- 11.3 The bidder shall, on or before the date given in the Notice Inviting EOI, submit his offer of interest.
- 11.4 The Bidder shall also be required to submit a written concept plan, working methodology, types and extent of Eri Silk textile manufacturing to be covered, proposed model of participation, roles and responsibilities of different stakeholders, standards of service level delivery and benchmarking etc. This plan should also contain an executive summary along with flow chart and diagrams so as to communicate properly the whole concept and plan.

SECTION 12 - Form of offer of interest

- 12.1 The Form of offer of interest shall be completed in all respects and duly signed and stamped by authorized and empowered representatives of the Bidder. If the Bidder comprises a partnership firm, consortium or a

joint venture, the Form of offer of interest shall be signed by a duly authorized representative of each member of participant thereof. Signatures on the Form of offer of interest shall be witnessed and dated. Copies of relevant power of attorney shall be attached.

SECTION 13 - Duration of the partnership

- 13.1 The contract is proposed to be initially **for five years**, which may further be extended on mutual agreement of both parties. However, THE OFFICE OF "NEHHDC, Crafts Promotion & Experience Centre, Garchuk, Pamohi Road, Guwahati – 781035" reserves the right to curtail or to extend the validity of contract on the same rates and terms and conditions for such period as may be agreed to.

SECTION 14 - Format & signing of the offer of interest

- 14.1 The bidder shall submit one copy of the EoI document and addenda, if any, thereto, with each page of this document signed and stamped to confirm the acceptance of the terms and conditions of the EoI by the bidder.
- 14.2 The documents comprising the offer of interest shall be typed or written in indelible ink and all pages of the offer of interest shall be signed by a person or persons duly authorized to sign on behalf of the bidder. All pages of the offer of interest, where entries or amendments have been made, shall be signed by the person or persons signing the offer of interest.
- 14.3 The offer of interest shall contain no alterations, omissions or additions except those to comply with instruction issued by the Corporation, or are necessary to correct errors made by the bidder, in which case such corrections shall be initialled/signed and dated by the person or persons signing the offer of interest.

SECTION 15 - Submission of Offer of Interest.

- 15.1 The bidder shall submit the offer only through email (**md.nehhdcl@gmail.com**) subjected with **"Offer of Interest for OPERATION & MAINTENANCE OF ERI SILK SPINNING MILL AT INTEGRATED TEXTILE PARK, BAKSA, ASSAM"**.
- 15.2 The offer should be supported by the following documents:-

joint venture. The Form of Offer of Interest shall be signed by a duly authorized representative of each member of contracting interest. Signatures on the Form of Offer of Interest shall be witnessed and dated. Copies of the Form of Offer of Interest shall be submitted to:

SECTION 13 - Duration of the Partnership

The contract is proposed to be in effect for five years, which may be renewed or extended on mutual agreement of both parties. However, the OFFICE OF PUBLIC WORKS, HONOLULU, is to exercise its right to terminate the partnership at any time. The partnership shall be terminated if either party fails to perform its obligations under the partnership agreement. The partnership shall be terminated if either party fails to perform its obligations under the partnership agreement. The partnership shall be terminated if either party fails to perform its obligations under the partnership agreement.

SECTION 14 - Form of Offer of Interest

The bidder shall submit two copies of the Offer of Interest and attach to each copy a copy of the Form of Offer of Interest. The bidder shall submit two copies of the Offer of Interest and attach to each copy a copy of the Form of Offer of Interest. The bidder shall submit two copies of the Offer of Interest and attach to each copy a copy of the Form of Offer of Interest.

The Offer of Interest shall be signed by the bidder or its authorized representative. The Offer of Interest shall be signed by the bidder or its authorized representative. The Offer of Interest shall be signed by the bidder or its authorized representative. The Offer of Interest shall be signed by the bidder or its authorized representative. The Offer of Interest shall be signed by the bidder or its authorized representative.

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SECTION 15 - Submission of Offer of Interest

The bidder shall submit the Offer of Interest to the Office of Public Works, Honolulu, at the address listed below. The bidder shall submit the Offer of Interest to the Office of Public Works, Honolulu, at the address listed below. The bidder shall submit the Offer of Interest to the Office of Public Works, Honolulu, at the address listed below.

The offer should be submitted by the following deadline:

(a) Details of the firm/agency with name, official's details, Office/Residential address and office Telephone numbers, whether the bidder is a sole proprietor/partnership firm and if partnership firm, names addresses and telephone numbers of Directors/Partners also;

(b) Self attested copy of PAN card No. under Income Tax Act;

(c) Self attested copy of GST Number;

(d) Self attested copy of Valid Registration No. of the Agency/Firm;

(e) Self attested copy of valid Provident Fund Registration Number;

(f) Self attested copy of valid ESI Registration Number;

(g) Self attested copy of valid Licence and Number under Contract Labour Act and under any other Acts/Rules;

(h) Proof of Average Annual turnover supported by audited Balance Sheet;

(i) Duly filled and signed "Schedule-I & II"

15.3 The mail will be addressed to the **Managing Director, NEHHDC**
To the mail: md.nehhdcl@gmail.com

SECTION 16 - Late and delayed Eol

16.1 Offer of interest must be received in NEHHDC at the mail address specified above (Section 15.3) not later than the date and time stipulated in the Eol Document. NEHHDC may, at its discretion, extend the deadline for submission of offer of interest in which case all rights and obligations of NEHHDC

16.2 Any offer of interest received by NEHHDC after the timeline for submission of offer of interest, as stipulated above, shall not be considered and will be returned unopened to the bidder.

16.3 In case, any delay for submission of Eol as informed by NEHHDC vides notification in their website, then the new date of submission as per the notification shall prevail.

SECTION 17 - Offer of Interest opening & evaluation

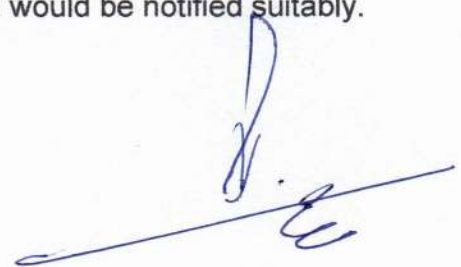
17.1 The offer of interest of all the bidders shall be evaluated according to

Schedule-I attached with this Eol.

- 17.2 The authorized representatives of NEHHDC will open the offer of interest in the presence of the Bidders or of their representatives who choose to attend at the appointed place and time.
- 17.3 The offer of interest of any bidder who has not complied with one or more of the conditions will be summarily rejected.
- 17.4 Subsequently, the technical offer of interest will be evaluated by the evaluation team as per the terms and conditions of this document.
- 17.5 NEHHDC Authority has right to accept any s and to reject any or all offer of interests.
- 17.6 NEHHDC is not bound to accept any or all offer of interest and may, at any time by notice in writing to the bidders, terminate the Eol process.
- 17.7 NEHHDC may terminate the contract if it is found that the agency is blacklisted on previous occasions by any of the Departments/ Institutions/ Local Bodies/ Municipalities/ Public Sector Undertakings, etc.

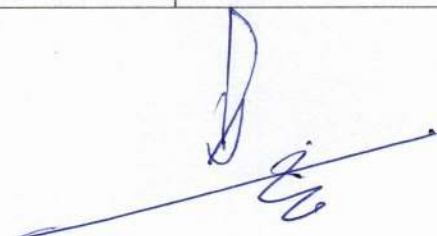
SECTION 18 - Eol processes AND program briefing meetings

- 18.1 NEHHDC will hold at least one Program Briefing Meeting with prospective bidders/private partners before the closing of the Eol, on the date as specified in the timeline at the beginning of this document. Depending on the requirement and for concretizing the scheme, scope of work and terms of engagements, there could be more such Program Briefing Meetings, date and time of which would be notified suitably.



SCHEDULE I – EXPRESSION OF INTEREST TEMPLATE

1 Applicants legal name 2 In case of Consortium legal name of each member 3 Applicants legal address 4 Applicant's authorized representative information (Name, Designation, Address, Telephone, FAX, E-mail) 5 Any relevant information on the applicant or consortium members related to the competence and ability to undertake the PPP Project. 6 Any comments or issues of concern regarding the PPP Project 7 Any questions regarding the PPP Project that have not yet or not adequately been answered by the Implementing Agency.	
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ANNEXURE B: LAND DETAILS

A plot of vacant land measuring 5 (Five) bighas in the premises of Integrated Textile Park, situated at Kharuajan, Mushalpur, Baksa, BTC, Assam, bounded as under:

NORTH	-	Kharuajan village
SOUTH	-	ITP Administration Office
EAST	-	Handloom Production Unit
WEST	-	Power House No. 1



ANNEXURE B: PLANT & MACHINERY

Sl. No.	Item Description	Quantity
1	Washing, Degumming & bleaching vessel (Horizontal Cylindrical Roller Type Degumming Machine); illustrative specification: Dia.: 60", Length: 80"; outer body fabricated from 8 mm thick MS Plates supported by MS structure with sliding type S.S. openable door for material loading/unloading; S.S. perforated cylinder fabricated out of 14 gauge, 304 quality S.S. material; M.S. shaft rotating on ball bearings; S.S. support for the tank, two draining and feeding arrangement, provision for overflow prevention etc. powered by 1 HP AC Motor with suitable gearbox and control Panel. The equipment shall be painted with good quality paint both outside & inside.	1
2	Heavy duty Hydro extractor: 600 mm dia., Height of basket shell: 325 mm" Approx., Capacity.: 50 kg; Basket made of Stainless Steel 304 Grade (outer body as well as inner basket made of S.S.); top discharge; bottom driven with standard Electric Motor: 2 HP, 3 phase 415 V equipped with Safety Limits Switches for top lid. The machine will be providing with A.C. Inverter drive with its Auto control panel complete. Basket speed 1000 rpm Approx.	1
3	Drying oven: Cabinet, Double Walled Door, Centrifugal fan, Direct Driven - 2 No, fitted with 3 phase AC induction motor -1 Hp/1440 Rpm, Dehumidifier - 1 No Fitted with single phase AC induction motor - 1/2Hp, 1440 Rpm, Manual air damper - 1 No, Heat Exchanger -1 Set, Electric Heating - 18 KW, Temperature Sensor - 1 No, Carrier Trolley - 1 No, Trolley made of S S 304 Square Pipe, Suitable for 150 kgs Hank/Fibre, Power Control Panel with drying programmer.	1
4	Blow Room Line: Beater: MBO LB3/2+Flexclean LB5/6+ Feed Ventilators LAS/6+ Exhaust fan LA5/7+CP; MBO: 4.5 Mtr lattice with Needle beater, grid bar and Filter box; Flexclean with Needle. beater, Filter box.	1
5	Fine Feed Chute LA 7/6; capacity 400 - 900 gm per metre; high pressure feeding with spring loaded controlled wire mounted feed, delivery to card feed roller by Dual Delivery Rollers.	2
6	Carding machine: Model LC361, Licker in: Single; Type of feeding: Chute feed; Linear coiler: 24 x 48 can; manual waste collection; Web doffing: Flow metal with Auto Leveller.	2
7	Draw Frame: 4 over 3 drafting arrangements with Pressure bar Servo drive for Drafting Automatic setting for best Levelling Action Point (LAP), self-cleaning Top Rollers, Power saving and kinetic backup technology, Duo-digital auto levelling system, Separate Motor for Coiler, Inverter controlled main drive, Spectrogram for self-identification of mechanical faults.	1
8	Speed Frame: 40 Spindles; Drafting drive: Single side;	1
9	Ring Spinning - Spindles: 240; Lift: 180 mm; DUI: 18 mm; Wharve: 18.5 mm; Tube length: 200 mm; Spindle type: HLLD; Taper: 1.4; Ring Dia: 40/42 mm; Flange: 1 mm; Pneumatic Drafting; Roll dia (bottom roll/Top roll): 30-27-30 /32-27-32; Cage: 59 mm.	4
10	HTHP Dyeing machine: Multi Pot Dyeing Machine - 15 kg/pot; Vertical Pot - 2 No, -Mounted on a common table top, Material of Construction : SS-316 L, Self-sealing Rapid	1

	Locking Top Lid, Safety device which functions automatically after 0.25kg pressure builds in the dyeing vessel, Carrier for Loose Hanks – To accommodate 15 kg Eri Silk Hanks, Material of construction – SS 316 L, Complete with locking fly nut. Single Stage Turbo Pump - 3 Phase AC induction motor (IE -2) – 5 Hp/ 2800 rpm, Inverter Drive for varying the speed/flow of Turbo pump, MLR – Fully flooded - 1:6.5, With Air pad : 1:6, Dozing System – 2 No.-Vertical Tank of 20 % capacity of main Vessel made of SS 316, Injector Pump – 1 Hp/2800 Rpm, Inverter Drive for varying the speed/flow of Dozing pump, Electric Heating - 1 Set - 4 Kw x 3 No = 12 Kw Heating Load, MOC of Heaters: SS-316, Cooling Coil – 1 No – Suitable for Cooling, M.O.C : SS-316L Seamless Pipe; Control Valves pneumatically operated for Cooling, Vessel fill, Vessel drain, Overflow, De-Pressure, Dozing tank drain & Coupling System– 2 Set, Manifold fitted with solenoid valve with 24V DC coil for Cooling, Vessel fill, Vessel drain, Overflow, De-Pressure, Top lid safety device, Dozing tank drain & Coupling System – 2 Set, Spring Loaded Over Pressure Relief Valve – 2 No, Pressure Gauge – 4 No, Air-Pad system – 2 No, Air filter regulator–1 Set, Water Level Sensor – 6 No, Proximity sensor – 2No, Temperature Sensor – 4 No, Pressure switches – 4 No, Pneumatics Control Box– 1 Set, Table Top Frame, Power Control Panel with dyeing programmer. Beaker Dying Machine: Vertical Rectangular Cabinet, Made of AISI- SS-304, Top Loading, 10 No. Beakers, Capacity 130 ml, Leakage proof, Pressure Sealing Lids, Tong Picker, Carrier For holding Beakers inside the cabinet, Mounted on the Shaft for forward/reverse rotation, Beaker Stand For holding 10 no. Beakers outside the cabinet, Modern, compact and practically designed machine frame, Temperature Sensor, Proximity Sensor, Reduction gearbox, Direct mounted, Laser aligned, fitted with Electric motor – 1/2 Hp-30 RPM, Heating By Electric Tubular heaters - 4 KW (2 KW x 2 No), Cooling Coil For cooling down the beaker temperature before unloading, Made of SS 316 seamless pipe, With Necessary valves & fittings, Power Control Panel with dyeing programmer. Hydro Extractor - 50 Kg; Perforated Basket – 1 No., Made of AISI- SS- 304, Outer Drum Top Lid, Top Lid, Inner Perforated Basket, Safety Covers, Base Frame, Direct Drive Operation, DBR, Limit Switch– 1 No, Electric Motor - 7.5 HP/1440 RPM, Power Control Panel. " Beaker Dying Machine: Vertical Rectangular Cabinet, Made of AISI- SS-304, Top Loading, 10 No. Beakers, Capacity 130 ml, Leakage proof, Pressure Sealing Lids, Tong Picker, Carrier For holding Beakers inside the cabinet, Mounted on the Shaft for forward/reverse rotation, Beaker Stand For holding 10 no. Beakers outside the cabinet, Modern, compact and practically designed machine frame, Temperature Sensor, Proximity Sensor, Reduction gearbox, Direct mounted, Laser aligned, fitted with Electric motor – 1/2 Hp-30 RPM, Heating By Electric Tubular heaters - 4 KW (2 KW x 2 No), Cooling Coil For cooling down the beaker temperature before unloading, Made of SS 316 seamless pipe, With Necessary valves & fittings, Power Control Panel with dyeing programmer.	
11	Pupa Rider: Screw feeding System; Capacity 200 Kg per 8 Hour	1
12	Cocoon Opener: Drums size - 30" dia x 30" width; Drum RPM: 150 fitted with 3 HP Motor	1

13	Fibre Cutter: Circular blade type cutting machine with feed lattice and feed roller, provision for speed variation of lattice and feed roller changes; machine width: minimum 30"	1
14	Pre-Opener: Willow machine; Cylinder dia: 51" with 2 Nos. of Spike Steel under casing, number of Spikes: Minimum 72; Feeding Lattice size: Minimum 56" x 105"; Delivery lattice size: Minimum 18" x 206"; Machine speed 360 RPM, Cleaning Blower speed 1000 RPM; Waste ejection through Screw Conveyor	1
15	Winding Machine for Spun yarns such as Ring spun, OE Count Range from 1 NE to 120 NE Double Side Construction ; No. of Spindles: (12 + 12) 24, Traverse: 6" (150 mm), Traversing System: Aluminium Hard; Brushless motor with DC Drive and individual Converter on every spindle; Anodized Drum with precision 95 mm: 2 Turns with 1.Electronic stop motion Speed Control and anti patterning by Inverter Drive with Panel, AC Drives Length Control System 2 tum drum Yarn clearer of Uster Without Auto Doffing With overhead Blower	1
16	Assembly Winding machine equipped with individual drum driven Length measuring device, Individual yarn sensor device, Inverter driven Delivery package etc. 36 positions	1
17	Two for One Twisters equipped with Cradle lifting machine, Top tray arrangement; Pot dia 180 mm and 120 mm; Ceramic quoted discs; Stop motion after breakages of yarn; Traverse: 152 mm; Count range: 20 Nm 2/100 Nm, 2/120 Nm; Feed package: Cheese; Twist range: 2.5 TNI to 43 TPI Anti Patterning Device; Delivery package: PSDP or cone TFO package dimension: Package length - 172 mm; Traverse length -163 mm to 165 mm. 36 positions	2
18	Gas Singing machine: Individual drum drive; Individual yarn sensor and stop motion; Should have mixing chamber for air and gas; There must be adjustment for air and gas pressure; Should have overhead blower; Should have over feed rollers, 24 Drums	1
19	Reeling machine: 80 peg machines, 40 pegs each side Hank dia: 1.37 meter; Equipped with digital counter meter and auto stop after full doff	2
20	Bailing Including bailing press Hydraulic pressing System	1
21	Bundling Machine: Capacity 5 kg; Hydraulic pressing System	1
22	Boiler for degumming: 500 Kg capacity; Mild Steel; Work Pressure: 10.54 kh/cm; Automatic; 3 Phase; 415 V±6%; Non-IBR with panel and accessories, including commissioning meeting all statutory requirements.	1
23	Air compressor	2
24	Humidification system	1
25	Effluent Treatment Plant with capacity 10,00 Ltrs/day	1
26	Water Treatment Plant with capacity 10,00 Ltrs/day	1
27	DG Capacity 250 KW	1