

Scheme of Fund for Regeneration of Traditional Industries
SFURTI

(Ministry of Micro, Small and Medium Enterprises, Govt. of India Project)

M/s APITCO Ltd, Hyderabad
(Implementing Agency for Vizianagaram Coir Cluster)

TENDER NOTICE

No. SFURTI/Tender/VCC/2017

Date: 9th February, 2017

Sealed tenders in two cover system and in the prescribed format are invited by The Managing Director, M/s APITCO Ltd., Implementing Agency of Vizianagaram Coir Cluster, Hyderabad from the machinery manufacturers for the supply, erection, commissioning of **coir processing machineries at the Common Facility Centre (CFC) of Vizianagaram Coir Cluster, at Gumpam village, Andhra Pradesh.**

| S. No. | Description | Qty. |
|--------|---|---------|
| 1 | UNTWISTING MACHINE | 2 Nos. |
| 2 | RUBBERISED COIR FLEECE MANUFACTURING LINE | 1 No. |
| 3 | PRE-LAMINATION SPRAY SYSTEM | 1 No |
| 4 | DRUM PRESS | 1 No |
| 5 | ELECTRONIC WEIGHING TABLE | 1 No |
| 6 | HYDRAULIC MAT PRESS | 1 No |
| 7 | VULCANISER | 1 No. |
| 8 | BAND SAW CUTTING MACHINE | 2 Nos |
| 9 | BALL MILL | 2 Nos |
| 10 | AGITATOR MOUNTED PRESSURE TANK | 1 No. |
| 11 | DE-AMMONIATING STIRRER & MIXING TANKS | 1 No |
| 12 | QUILTING MACHINE | 1 No |
| 13 | DUST EXTRACTION SYSTEM | 1 No |
| 14 | AIR COMPRESSOR | 1 No |
| 15 | THERMIC FLUID HEATER | 1 No |
| 16 | CHIMNEY & FLUE DUCT | 1 No |
| 17 | UTILITY PIPELINES | One set |
| 18 | MATERIAL HANDLING EQUIPMENTS | One set |
| 19 | WEIGHING EQUIPMENTS | One set |
| 20 | HAND TOOLS | One set |

Supply and installation place: at Gumpam Village, Pusapatirega Mandal, Vizianagaram District, Andhra Pradesh

EMD: Rs **0.50** lakhs

The tender form can be received from The Managing Director, M/s APITCO Ltd, Hyderabad, Implementing Agency of Vizianagaram Coir Cluster and submit the tender in two cover system containing separate sealed covers of technical bid & financial bid.

The last date for issue of tender documents is 17.00 hrs on **11th March,2017**. Tenders in sealed cover with EMD (along with the technical bid) in the form of DD drawn in favour of "**The Managing Director, M/s APITCO Ltd** payable at **Hyderabad** or Bank Guarantee equivalent to the EMD (along with technical bid) amount, will be received by The Managing Director, M/s APITCO Ltd, Implementing Agency of Vizianagaram Coir cluster, Hyderabad 13.30 hrs on **13th March, 2017**.

The Managing Director, M/s APITCO Ltd, Hyderabad reserves the right to reject any or all tenders without assigning any reason whatsoever. For any clarification contact The Managing Director, M/s APITCO Ltd, Implementing Agency of Vizianagaram Coir cluster, Hyderabad **Phone: 040-23233625, e-mail IDs: hyd1_apitco@bsnl.in or md@apitcoltd.org** .

**The Managing Director,
M/s APITCO Ltd
Hyderabad**

TENDER SCHEDULE

The Managing Director, M/s APITCO Ltd, Implementing Agency of Vizianagaram Coir Cluster, Hyderabad invites sealed tenders for the supply of coir processing machineries to Vizianagaram Coir Cluster.

Due date and time for issue of the tender: on **11th March, 2017**, Till 17.00 hrs

Due date and time for receipt of completed tender: **13th March 2017**, Till 13.30 hrs

Due date for opening of Tender Technical Bid (First stage): **13th March 2017**, Till 15.00 hrs

Due date for opening of Tender Commercial Bid (Price Bid) second stage:
After finalization of first stage Tender

N.B:

- i. Tenders received after the due date and time will not be accepted under any circumstances.
- ii. In case the above tender opening date happens to be a declared holiday, the tender shall be opened on the next working date at the same time.

1. Tender should be submitted to the Implementing Agency for Vizianagaram Coir Cluster **at: Regional Office, Coir Board, A.C. Gardens, Dowleswaram Road, Rajahmundry-533 101, East Godavari District, Andhra Pradesh.**

1-1. The agency reserves the right to accept or reject any tender without assigning any reason whatsoever

1-2. Tenderer has to abide by the instructions, terms and conditions and specifications contained in the Tender document. Failure to furnish all information required in the Tender document or submission of a Tender not substantially responsive to the Tender document in any respect will be at the Tenderer's risk and may result in the rejection of his Tender.

1-3. This Tender document is not transferable. Not more than one Tender against this Tender document shall be submitted. This will be the case even if they represent two principles as their agents/representative.

2. PREPARATION OF TENDER

Language of Tender

Tender prepared by Tenderers and all correspondence and documents relating to the Tender exchanged by Tenderer shall be in English/Hindi. If any printed literature in any other language is furnished it shall be accompanied by an English translation, for the purpose of interpretation of tender the English translation shall govern. All particulars shall be legible, type written or printed.

3. DOCUMENTS COMPRISING TENDER

This Tender consists of two parts –Technical Bid (First Stage) and Commercial Bid or Financial Bid or Price Bid (Second stage).

a) Technical Bid (First Stage):

The technical bid prepared by Tenderers shall be labeled "FIRST STAGE TENDER". It shall contain 2 parts. 'A' part and 'B' part. The 'A' part is pertaining to the details of the Manufacturer. The 'B' part is pertaining to the details of the Coir Processing Machineries with complete description and services the Tenderer intends to provide and shall comprise the following:

- i.** Installation of Coir Processing Machineries.
- ii.** Trial run.
- iii.** Training to the Technicians and workers.
- iv.** Period of warranty with replacement of spares (minimum 1 year).
- v.** Warranty starts only after installation and commissioning of the machine.
- vi.** Warranty should be extended on expiry of the said warranty and rate for the warranty extension should be quoted separately.

The format of the technical bid is given in **Annexure-1**.

b) Previous performances

1. Documentary evidence to tenderer's qualification to perform the contract if his tender is accepted, which shall establish to the satisfaction that: the tenderer has the financial, technical and production capacity necessary to perform the contract and in particular, has the experience of having designed, manufactured and supplied sufficient number of Coir Processing Machineries having the same like specifications and of the same or higher capacities and are in successful operation and also has the experience of having erected and for erection, start-up and commissioning. Relevant detail about experience in execution of similar works of Coir Processing Machineries should be furnished as per the format in **Annexure-1B**.

2. The documentary evidence of Coir Processing Machineries conforming to Tender Document may be in the form of literature, drawings and data, and the Tenderer shall furnish:

- i. A detailed description of Coir Processing Machineries, essential technical and performance characteristics as per Tender specifications.
- ii. Earnest Money Deposit as stated above in the table should be enclosed in the form of D.D. drawn in favour of The Managing Director, M/s APITCO Ltd., Hyderabad taken from any of the Nationalized Bank payable at Hyderabad or Bank Guarantee equivalent to the EMD amount.
- iii. Tenderer shall furnish with the Tender, along with his PAN and the Sales Tax Registration Number of both Central and State with validity period.

4. Commercial bid or Price bid (Second Stage):

The second stage tender covers the price aspect of the Coir Processing Machineries. **Bidder should quote separate rate for each machineries / other items.** The price of the machineries / items should be inclusive of transportation, after sale service and all type of taxes. The format of the commercial bid is given in **Annexure-2**. The prices should be for "F.O.R.SITE" including installation, trial run, demonstration, transportation, etc.

5. Tender Form

5-1. As part of his First Stage Tender, - Technical Bid, Tenderer shall submit the Tender Form in the format furnished in the Tender Document, a detailed description of Coir Processing Machineries with technical specification with quality and production capacity. **NO PRICE SHALL BE OFFERED IN THE TENDER FORM IN TECHNICAL BID.**

5-2. 'B' part of the Technical bid should be furnished separately for each Machineries.

5-3. As part of his Second Stage Tender (Financial Bid or Price Bid) Tenderer shall submit the Tender Form, as per format (Price schedule) furnished in the Tender Document duly completed in all respects, which will include the unit price/total price for the Machineries and lump sum price for erection, start-up commissioning and servicing.

6. Payment and Delivery

6-1. The successful Tenderer should give a Performance Guarantee of 5% of the quoted amount. All payments to successful Tenderer shall normally be made by means of “**Account Payee**” cheque. The performance guarantee should normally remain valid for a period of 60 days beyond the date of completion of the contractual obligation.

- 30% of the payment will be released as advance against bank guarantee.
- 40% of second installment after completing the fabrication and supply of the Coir Processing Machineries,
- 25% after completion of installation and proper wiring.
- 5% of the balance payment would be released on fulfillment of all terms and conditions and successful running of the Coir Processing Machineries.
- Interest at the admissible rate will be charged for advance amount if any released.

6-2. Duties and Taxes

- i. The price quoted on F.O.R. site of beneficiaries concerned shall be inclusive of all, taxes levies and octroi. Tenderer shall be solely responsible for payment of these duties and taxes.
- ii. Excise Duty, Sales Tax, Entry Tax and other levies applicable such as additional taxes, octroi, surcharges on taxes and incidentals should be separately indicated in the tender. In respect of items which do not attract the levies, the fact should be specifically mentioned in the tender. If any of the item/parts are to be imported, the party may be informed well in advance.

6-3. Delivery

The delivery of the Coir Processing Machineries/items ordered shall be completed within the time limit prescribed in the purchase order to enable completion of erection and commissioning within 45 days from the date of issue of purchase order. This aspect will be taken up for discussion during the evaluation of the technical bid.

7. Earnest Money Deposit

7-1. Every Tenderer shall furnish, along with Tender Document EMD as stated above in the table. It has to be furnished in the form of a Demand Draft from any Nationalised Bank in favour of The Managing Director, M/s APITCO Ltd,

Hyderabad or Bank Guarantee equivalent to the EMD amount. The EMD will carry no interest. It should remain valid for 45 days beyond the final bid validity period.

7-2. EMD should be enclosed in the technical bid. Tenders received without the EMD will be rejected.

7-3. SSI Unit having valid registration with NSIC is exempted for payment of EMD. Attested copy of the registration certificate with NSIC should be attached along with request for tender documents free of cost.

8. Period of validity of Tenders

8-1. The Tender will be valid for a period of 90 days after the date of opening of the Tender prescribed by The Managing Director; APITCO Ltd. Tenders with validity for a shorter period are liable for rejection by tenderer.

8-2. In exceptional circumstances The Managing Director, APITCO Ltd., may solicit the Tenderers consent to an extension of the period of validity. The request and the responses thereto shall be made in writing.

9. Format and Signing of Tender

9-1. The copies of tenders shall be typed legibly and neatly. All pages of tender schedule shall be signed by the person or persons signing tender who shall be authorized signatory of the Tenderer.

9-2. Tender shall contain no interlineations, erasures or overwriting except as necessary to correct error made by the Tenderer, in which case such corrections shall be signed by the person or persons signing the tender.

9-3. All pages of the tender and the accompanying documents shall be with full signature at the lower right hand corner and signed wherever required by the Tenderers or persons holding the Power of Attorney, before submission of the tender. Unsigned tenders and tenders which are incomplete, obscure, irregular and / or otherwise considered as defective and are liable for rejection.

10. TENDER SUBMISSION

10-1. The Tenderer shall submit the two tenders namely, the First Stage Tender (Technical Bid) and Second Stage Tender (Price Bid) at the same time in two separate sealed covers super scribing the respective bids viz. First Stage Tender (Technical Bid) and Second Stage Tender (Priced Bid). Both the sealed covers

will be put in an outer cover duly sealed and super scribed as **“TENDER FOR THE SUPPLY OF COIR PROCESSING MACHINERIES TO VIZIANAGARAM COIR CLUSTER”**.

The inner and outer envelopes' shall be super scribed as:

- a. The Managing Director, M/s APITCO Ltd., Hyderabad, Implementing Agency of Vizianagaram Coir cluster, Vizianagaram and shall bear on the top left hand corner, “TENDER FOR THE SUPPLY OF COIR PROCESSING MACHINERIES TO **VIZIANAGARAM COIR CLUSTER**”.
- b. The inner envelope shall, in addition, indicate the name and address of the Tenderer to enable the tender to be returned unopened in case it is received late. If the outer envelope is not sealed and marked as required will not assume any responsibility for the tender's misplacement or premature opening.

10-2. Tenders by cable, telegram, email, telex or tele-fax will not be considered.

10-3. On opening outer envelope if either the 1st stage Tender or 2nd stage tender is missing, the tender will be considered as invalid and rejected.

11. Due Date for Opening of Tenders

The Managing Director, M/s APITCO Ltd., may at its discretion, extend this due time for submission of tenders by amending the tender document.

12. Late Receipt of Tenders

Any tender received by The Managing Director, M/s APITCO Ltd, Implementing Agency of Vizianagaram Coir cluster, after the due time for submission of tender prescribed by The Managing Director, M/s APITCO Ltd, Implementing Agency of Vizianagaram Coir cluster, will be rejected and / or returned unopened to the Tenderers.

13. Opening and evaluation of First Stage Tenders-Technical Bids (Annexure- 1)

13-1. The Tenderer or his representative who will be able to comment on all issues pertaining to this tender shall necessarily be present at the time of opening of this tender. The Managing Director, APITCO Ltd., Implementing Agency of Vizianagaram Coir cluster, will open the First Stage Tenders in the presence of Tenderer's representative at the time on the date specified in the Tender document, in the presence of the Tender Opening Committee.

13-2. Changes and alterations which materially alter the Tendered prices are not permitted after the opening of the tender document.

13-3. Name of Tenderers and such other details as The Managing Director, APITCO Ltd. as its discretion may consider appropriate will be read out at the time of opening.

14 Preliminary examinations of First Stage Tenders – Technical Bid

14-1. The purchase committee will examine the First Stage Tenders – Technical Bid to determine whether they are complete, whether all documentary evidences and EMD as required have been furnished, whether the documents have been properly signed, and whether tenders are generally in order.

14-2. Tenders that do not provide all the information required may be declared invalid and rejected.

15 Evaluation of First Stage Tenders – Technical Bid

15-1. purchase committee will proceed with a detailed evaluation of tenders to determine whether the Technical proposals (without price schedule) comprising the tender are substantially responsive to the requirement set forth in the tender document. In order to reach such a determination purchase committee Board will examine and compare the Technical aspects of the tenders based on the information supplied by the Tenderers.

16. INTEGRITY PACT (IP) – Applicable for jobs above Rs.5.00 lakhs.

Bidders are requested to sign & return our pre-signed IP document as per Annexure IV. This document is essential & binding. Bidder's failure to return the IP duly signed along with Technical Bid Document shall result in the bid not being considered for further evaluation.

17 Review of the Tenderer's qualification

17-1. purchase committee will then determine whether the Tenderers having submitted substantially responsive technical and commercial offers are qualified to satisfactorily perform the contract. Accordingly purchase committee will examine the financial, technical, previous experience and production capability of each Tenderer to determine whether the minimum acceptable criteria have been met. Such determination shall be based on the information submitted by the Tenderers, as well as on any other information at purchase

committee may consider necessary to obtain and review in order to reach such determination.

17-2. The technical and production capability of each tenderer will be assessed by the Tender Opening Committee on the basis of technical specifications and production capability of the Coir Processing Machineries assessed by the committee.

18 Notification of First Stage Technical Bid evaluation (Annexure-1)

18-1. The purchase committee will evaluate the tenders and reject the Tender/tenders which is/are substantially non-responsive or/and which are not meeting the minimum qualification/requirements.

18-2. Based on technical specification, financial and production capability, the First Stage Tender will be evaluated. The successful Tenderers will be notified. The second stage Tender (Price Bid) of the unsuccessful Tenderer in the first stage Tender will not be opened. Hence their second stage Tender will not be considered.

19 Notification for opening and evaluation of second stage tenders (Financial or Price bid)

19-1. purchase committee will examine the Second Stage Tenders to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed, and whether the tenders are generally in order.

19-2. The comparison of the rates offered shall be on the basis of the total rates offered inclusive of all taxes, after sale service etc.

19-3. In addition to the Tender Prices, suitability of the Coir Processing Machineries in the particular area of production will also be considered before arriving at a decision.

19-4 In respect of erection, startup commissioning, the comparison will be on the total lump sum price.

19-5 In order to secure the best possible procurement price negotiations with L1 Tenderer shall be conducted, if the tender opening committee feels necessary.

20 AWARD OF CONTRACT

20-1. Award Criteria

Based on the detailed evaluation report prepared and accepted by the Tender Opening Committee, The Managing Director, M/s APITCO Ltd., will award the contract to the successful Tenderer whose Tender has been determined to be substantially responsive provided further that the Tenderer is determined to be qualified to perform the contract satisfactorily.

20-2. The Managing Director, M/s APITCO Ltd., Implementing Agency of Vizianagaram Coir Cluster, reserves the right to accept or reject any Tender, to annul the Tendering process and reject all Tenders at any time prior to award of contract, without assigning any reason.

20-3. The Managing Director, M/s APITCO Ltd., Implementing Agency of Vizianagaram Coir Cluster reserves the right to distribute the contract to more than one Tenderer/Contractor.

21 Notification of Award

21-1. Prior to the expiry of the period of Tender validity, The Managing Director, APITCO Ltd., Implementing Agency of Vizianagaram Coir cluster will notify the successful Tenderer in writing by registered letter/ e-mail confirming the acceptance of the Tender.

21-2. The notification of award will constitute the formalizing or conclusion of the contract.

22 Signing of Contract

22-1. Along with the notification to the successful Tenderer that his tender has been accepted The Managing Director, M/s APITCO Ltd. will send the formal contract incorporating all the terms and conditions.

22-2. Within 10 days of receipt of the formal contract, the successful Tenderer shall sign the contract with The Managing Director, M/s APITCO Ltd. on a stamp paper of Rs.100/-.

22-3. Failure of the successful tenderer to comply with the requirement of this clause constitute sufficient grounds for the annulment of the award and forfeiture of the EMD, in which event The Managing Director, M/s APITCO Ltd. may make award to the next rated tenderer or call for new tender.

23 Erection and supervision

23-1. The Coir Processing Machineries should be installed under the supervision of the supplier and trial run should be conducted.

23-2. The production capacity of the Coir Processing Machineries should be demonstrated and the workers should be trained.

23-3. Performance guarantee should also be offered for a minimum period of one year.

23-4. The electrification of the Coir Processing Machineries should be done under the supervision of the supplier.

25 Settlement of Disputes

Any dispute relating to this contract or on account of any other reason whatsoever shall be settled amicably by the parties hereto, through discussions and agreement, in a spirit of mutual goodwill and understanding. However, in the unlikely event of any dispute or disputes remaining unresolved even after mutual discussion, such dispute or disputes may be referred to an Arbitrator to be appointed by the Parties hereto by mutual agreement. If no such Arbitrator could be appointed by mutual consent, the matter may then be referred to The Secretary, Coir Board, Kochi -16 for nominating an Arbitrator, the Arbitration proceedings being governed by the Arbitration and Conciliation Act 1996. The venue of Arbitration shall be at **Vizianagaram** and the Courts in **Vizianagaram** shall have exclusive jurisdiction over any application that may be filed by either party in this empanelment in relation to any dispute arising out of or in the course of or in connection with this contract and also in respect of any application under the provisions of Arbitration and Conciliation Act 1996.

26 General Terms and Conditions

1. The terms and conditions of the work will be interpreted in Indian Laws and will be under the jurisdiction of judicial court at **Vizianagaram, Andhra Pradesh**.

2. Conditional bidding of price and conditional offer of discounts will not be accepted and such offers can render the bids liable for rejection. The amount quoted should be written in words and figures. Any correction, over writings will have to be attested.

3. Bids shall be submitted in sealed cover only. Bids through fax, e-mail etc. will not be entertained.

4. The bidders should indicate their valid service tax registration number, Income tax PAN in the Tech bid.
5. Incomplete bids and unauthenticated bids and bids received after the stipulated time will be summarily rejected.
6. The invitation for Bids is not an offer and is issued with no commitment. The Managing Director, M/s APITCO Ltd., reserves the right to withdraw the invitation and change or vary any part thereof at any stage. The Managing Director, APITCO Ltd., also reserves the right to disqualify a bidder, should it be so necessary at any stage.
7. The Managing Director, M/s APITCO Ltd., reserves the right to withdraw this invitation of Bids if it determines that such action is in the best interest of the Board.
8. Timing and sequence of events resulting from this invitation shall ultimately be determined by The Managing Director, APITCO Ltd.
9. The bidders shall have no claims whatsoever against The Managing Director, M/s APITCO Ltd., arising out of, or relating to this invitation of Bids or these procedures (other than those arising under a definitive service agreement with the bidder in accordance with the terms thereof).
10. Bidders, who are found to canvass, influence or attempt to influence in any manner the qualification or selection process shall be disqualified from the process at any stage.
11. By submitting a proposal, each bidder shall be deemed to acknowledge that it has carefully read all the conditions and limitations.
12. The Technical bid should include the terms and conditions of payment.
13. The Managing Director, M/s APITCO Ltd., reserves the right to short list the parties responding to this notice on the basis of the evaluation of the Technical Bids before opening of the price bids. Submission of more than one bid by the same party will be a disqualification.
14. The bidders will have the liberty to raise question on the tender procedures and the tender documents.

The successful tenderer should demonstrate the production for output guaranteed; complete the successful trial run of the Coir Processing Machineries and training to the technician/ Workers in the respective destinations.

Yours faithfully,

The Managing Director,
M/s APITCO Ltd, Hyderabad

I/We hereby read carefully the above terms and conditions of Tender and agree to abide by the terms and conditions laid down in the tender notice and shall execute the orders accordingly.

Signature:

Name:

FORMAT FOR FIRST STAGE TENDER-TECHNICAL BID

PART – A

1. Name of the Tenderer with full address:

2. If the firm is Proprietary/Partnership/Company,
give the name and address of Proprietor /
Partners / Directors. :

3. Whether EMD has been furnished as
prescribed. If so details. :

4. Number of years in business. :

FORMAT FOR FIRST STAGE TENDER-TECHNICAL BID
PART – A-1

1. Name of the Tenderer :

- 1.1 Full address with PIN Code :
- 1.2 Telephone Nos. :
- 1.3 Email ID :
- 1.4 Fax Nos. :
- 1.5 Contact Person(s) :

2. Company particulars

- 2.1 Constitution/Company profile:
- 2.2 If the Company is Proprietary/Partnership:
 give the name and address of Proprietor/
 Partners/Directors.
- 2.3 The State in which the Company is registered:
- 2.4 Company Registration No. :
- 2.5 Name & address of the Bankers:
- 2.6 No. of years in business:
- 2.7 ISO Certification No. :
- 2.8 MSME acknowledgement No. and date:
- 2.9 NSIC Registration:
- 2.10 Register with any other organization:
- 2.11 No. of employees:
- 2.12 Details of infrastructure available:
 (attach a separate sheet)

3 Financial Data:

- 3.1 Sales turnover for the last three years:
- 3.2 Profit after tax for the last three years:
 (audited statement)
- 3.3 Permanent Income Tax Account No. :
- 3.4 VAT Registration No. :
- 3.5 TIN :
- 3.6 Service Tax Registration No. :

Name

Date

Signature

Designation (Authorized Signatory)

Seal

Note:

1. All requisite information shall be given in the format with reference to the item specified. Where space is insufficient, additional pages may be added with reference to the related paragraph.
2. Wherever enclosures are specified in the questionnaire, the same shall be enclosed.
3. The Managing Director, M/s APITCO Ltd., Hyderabad, reserves the right to verify any of the statements enclosed along with the technical bid. Any additional information/documents required shall also be furnished. False statement shall disqualify the Tenderer.

PART – B

1. Product profile, Product range and
Production capacity - product wise :

2. Man power requirement. :

3. Detailed description of each machinery
(including drawings).

a) Size :

Length :

Width :

Height :

b) No. of Motors./Diesel Engine :
(with brand & KWA)

c) Technical details. :

4. Performance details :

5. Details of after sale services :

There would not be any change in the above mentioned specification. The terms and conditions stipulated by the Coir Board are acceptable to me.

Signature:

Name :

(Seal)

TECHNICAL SPECIFICATIONS

(Fabrication, Supply, Erection, Commissioning and Trail run on turnkey basis)

GENERAL CONDITIONS:-

- The combination of machineries for each coir unit have to be supplied on turnkey basis and the work includes transportation, erection, installation, trial run and training.
- Electric Motor should be three phases with optimum output power suitable for smooth functioning, maximum production with minimum power consumption provided with starters and safety features.
- Machinery should be capable of producing the required quality and quantity prescribed.
- Specific Details of the machineries developed by adopting suitable technologies for quality improvement, output and reduced operational cost can be submitted on separate sheet.

| S. No. | Description | Qty. |
|----------|--|---------------|
| 1 | <p>UNTWISTING MACHINE</p> <p>Untwisting machine should be suitable for opening & carding of curled coir ropes of 16mm to 25mm diameter into springy loose fibre for feeding into the sheet-forming machine. The Untwisting machines should be mounted over the Feeding Conveyor of the RCP</p> <p>Capacity: 300 kg/hour</p> <p>Power required: 10.5 hp</p> | 2 Nos. |
| 2 | <p>RUBBERISED COIR FLEECE MANUFACTURING LINE</p> <p>The plant should be capable of producing in continuous process, endless fleece of maximum width 1.4 meters.</p> <p>The Rubberised Coir Sheet Forming Plant should consists of</p> <p>A. Feeding Section</p> <p>B. Web Forming Section:</p> <p>C. Spray Station:</p> <p>D. Drying Section:</p> <p>They are detailed below</p> | 1 No. |

Feeding Section

Fibre feed system should consist of specially designed feed conveyor with fibre opener picker drum and pneumatic fibre conveyor system. This section is used for further loosening and pickering of the fibre and feeding into the web former.

Web Forming Section

The Web Forming Section should have a Vaned Fibre Distributor, a Single Stage Volumetric Feed Box, Layering Drum and Twin Conveyors. The high-speed layering drums should ensure uniform web density and vertical orientation of fibre. The feed to the layering drum is to be regulated by separate variable speed controlled feed system designed to achieve the required uniform web density and vertical orientation of fibre.

Spray Station

There should be two Spray Stations delivering atomised compounded latex through a pair of banks of Latex Spray Guns. The guns should provide fine coating of atomized latex to the coir web, whereby the binding of the coir web is ensured. The Latex Spray Guns should be easy to detach, maintain and reconnect and are designed sturdy.

The first spray station should be located just before the fleece enters the Drying Section. The second Spray Station should be located after the first pass of the slat conveyor and just before entering the Drying Section for the second pass.

Drying Section:

The Dryer Section should remove excess moisture in the latex. The Drying Section should have a three-pass slat conveyor system with synchronized common drive. The hot air delivery and distribution system should be designed to ensure uniform distribution of hot air over the entire fleece. All external panels, both fixed and hinged, are to be double-walled and insulated with high-grade imported resin bonded glass wool.

| | | |
|----------|--|-------------|
| | <p>The thermic fluid heated hot air generator with in-line heat exchanger and blower. The design should ensure part of the hot air generated is recycled. The hot air distribution should be staggered for maximum delivery at the first and second pass of the slat conveyor</p> <p>Calendaring of the fleece is to be done at the end of the second pass.</p> <p><u>Cutting Section:</u></p> <p>A trolley mounted motorized circular cutter should cut the fleece to the desired length. It should have independent control and safety guard, handle etc. This is to be designed to cut the fleece without interrupting the production.</p> <p>Capacity: 500 kg Rubberised Coir Fleece per hour.</p> <p>Total power required : 65 hp approximately.</p> | |
| 3 | <p>PRE-LAMINATION SPRAY SYSTEM</p> <p>This Spray system is introduced to avoid a separate Spray Cabin. The in-line spray station provides a light coat of latex for binding the laminations before pressing. The diluted latex is delivered from a separate pressure tank. The Pre-lamination Spray is to be mounted on a Slat conveyor just before cutting section.</p> <p>Power required 1 hp</p> | 1 No |
| 4 | <p>DRUM PRESS</p> <p>The Drum Press should consist of a positively driven feeding conveyor, large diameter drum rollers, and a holding roller table. The drum design should ensure the fleece orientation does not dislocate or collapse while pressed. The drum and feed roll conveyor should have separate geared drives.</p> <p>Power required 2 hp</p> | 1 No |
| 5 | <p>ELECTRONIC WEIGHING TABLE</p> <p>The dry fleece exiting the dryer is measured in length, cut across and stacked on the electronic weighing table. The stacked fleece is then weighed to pre-determined weights before lamination. The weights, time, date and batch are monitored and recorded. The production from the RCP is</p> | 1 No |

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| | and designed for 250 litres loading capacity. The ball mills shall be complete with supporting frame, safety guards, hour-meter, all electrical, suitable drive system etc. Power required : 15 hp. | |
| 10 | AGITATOR MOUNTED PRESSURE TANK The tank should have loading capacity of 1500 ltrs. It should be robust in design, made out of tested epoxy coated mild steel with dished ends. The tanks should be mounted with reduction gear driven agitators. The tank should be having pressure resistant stuffing box to prevent leakage of air to prevent pressure drop. The tank should have stainless steel inlet and outlet air valve, ammonia resistant pressure gauges, safety relief valve, drainage valve, manhole with cover and pouring mouth with dummy. Capacity: 1,500 Litres Power required : 1 hp. | 1 No. |
| 11 | DE-AMMONIATING STIRRER & MIXING TANKS The Latex Stirrer will have 5 hp motor and reduction gear common drive to all the six agitators. The whole equipment will be mounted on heavy duty frame work with suspended stirrer shaft and blades. There will be 3 latex tanks of 400 litre capacity placed on individual trolleys. The tanks will have epoxy coating inside and enamel paint outside. | 1 No |
| 12 | QUILTING MACHINE Maximum Width of Material: 90" Maximum Quilting Width: 84" Maximum Distance between Needles: 1" Number of Needle Row: 3 Distance between Row: 3" Number of Needle: 252 Power Required: 3 hp | 1 No |
| 13 | DUST EXTRACTION SYSTEM Dust rising from the Untwisting Section volumetric chambers and the layering drums are sucked out to the dust extraction system. All necessary suction blowers and dusts dust catchers etc. are included Power required: 10 hp. | 1 No |

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| <p>14</p> | <p>AIR COMPRESSOR</p> <p>One single stage, rotary screw element complete with: Dry paper type suction air filter with silencer. Conveniently located for easy replacement of filter element. Unloader with Integrated regulating valve for load/unload control system. Simple design with only one moving part needs no regular adjustments. Three-way solenoid valve required for load/unload regulation of the compressor. Air/Oil temperature switch/gauge. Air oil temperature at element outlet and to shut down the compressor in case of too high element outlet air temperature. Air check valve at the element discharge end. Air oil receiver tank consisting of: Sight glass for oil level indication and oil filling arrangement. Minimum pressure valve to close off the compressor from the air net when the unit is stopped or running unloaded and to maintain required air pressure in the system for proper oil lubrication. Safety valve. Gauge for air oil receiver pressure. Oil draining arrangement. Three stage air oil separation system. First by cyclonic action (Centrifugal), second by gravitational (heavier particles separate down), Third by passing through coalescent filter. Air & Oil cooler assembly – Air & oil cooler are compact block coolers of Aluminium for optimum heat transfer. Lower pressure drop and lower weight. After cooler reduces the temperature at outlet air to approximately 8 to 10° C above ambient temperature. Oil filter mounted on air oil cooler for filtration of lubricating oil. Thermostatic valve to regulate oil temperature within the system. Power required: 10 hp.</p> | <p>1 No</p> |
| <p>15</p> | <p>THERMIC FLUID HEATER</p> <p>Thermic Fluid Heater of capacity 6 lakhs kcal. per hour Standard vertical type coiled heater Power required: 16 hp.</p> | <p>1 No</p> |
| <p>16</p> | <p>CHIMNEY & FLUE DUCT</p> <p>Standard Chimney of appropriate Diameter to maintain</p> | <p>1 No</p> |

| | | |
|-----------|--|----------------|
| | steady up-draft of flue gases, ladder, as per IS standards | |
| 17 | UTILITY PIPELINES Standard utility pipelines for Thermic Fluid, Compressed Air for delivery at various tapping points in the plant. Pipeline for thermic fluid include provision for booster pump to maintain dual temperature for various equipment | One set |
| 18 | MATERIAL HANDLING EQUIPMENTS Various material handling equipments to move raw materials, semi-finished goods and finished goods like trolleys, pallets, electric hoists, barrel movers etc. | One set |
| 19 | WEIGHING EQUIPMENTS Weighing Equipments like platform scales at various point of production and packing for dispatch | One set |
| 20 | HAND TOOLS Hand tools for routine maintenance, minor repairs and in-house fabrications like welding set, angle grinders, drilling machines etc. | One set |

PREVIOUS EXPERIENCE OF COIR PROCESSING MACHINERIES SUPPLIED BY THE TENDERER

Name of the Tenderer:

| Sl. No. | Name & Address of parties to whom coir Processing machineries were supplied | Name of the Coir Processing machineries | No. of Coir Processing machineries supplied | Date & Year of supply | Feedback report from the user | Address where Coir Processing machineries can be inspected | Present condition of the Coir Processing machineries | Remarks |
|---------|---|---|---|-----------------------|-------------------------------|--|--|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| | | | | | | | | |

M/s APITCO Ltd, Hyderabad
(Implementing Agency for Vizianagaram Coir Cluster)

FORMAT FOR SECOND STAGE TENDER-FINANCIAL BID

Name of the Tenderer :

| Sl. No. | Name of the Machinery | Qty | Unit price | Tax | Amount |
|----------------|------------------------------|------------|-------------------|------------|---------------|
| 1 | | | | | |
| 2 | | | | | |
| | | | | | |

Note:

Total price including all types of taxes, insurance, Transportation, services etc.