

**Tender Notice No:**

**JDI/KONKAN/MSECDP/FC/2023-24/03**



**Govt. of Maharashtra  
Directorate of Industries**

**O/o Joint Director of Industries, Konkan Region, Thane.**

## **E-TENDER**

**For**

**SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR  
POWER GENERATION SYSTEM**

**(Tender No: JDI/KONKAN/MSECDP/FC/2023-24/03)**

**At Common Facility Centre,**

**TARAPUR MODULAR FURNITURE PROCESSING ASSOCIATION,**

**SURVEY NO. 22/4/3/3, AMBATPADA, PARNALI, BOISAR-TARAPUR ROAD,**

**TAL. & DIST. PALGHAR 401502, STATE- MAHARASHTRA, INDIA**

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**Joint Director of Industries, Konkan Region**

**MIDC Office Complex, 1<sup>st</sup> Floor, Mulund Check Naka, Wagale Industrial Estate,  
Opp. Modela Wooden Mill, Thane (W) - 400 604**

**☎ - 022- 2582 8504; E-Mail: [dirokonkan@maharashtra.gov.in](mailto:dirokonkan@maharashtra.gov.in)**

**Govt. of Maharashtra**  
**Directorate of Industries,**  
**O/o Joint Director of Industries, Konkan Region, Thane**  
**MIDC Office Complex, 1<sup>st</sup> Floor, Mulund Check Naka, Wagale Industrial Estate,**  
**Opp. Modela Wooden Mill, Thane (W) - 400 604**  
**Tel: 022-25828504. e-mail: [dirokonkan@maharashtra.gov.in](mailto:dirokonkan@maharashtra.gov.in)**

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**E-TENDER**  
**For**  
**SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER**  
**GENERATION SYSTEM**

**For Common Facility Centre, Tarapur Modular Furniture Processing Association,**  
**Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502,**  
**State-Maharashtra, India**

Tender No.	<b>JDI/KONKAN/MSECDP/FC/2023-24/03</b>
Tender Publish date:	25/05/2023 at 10.00 hrs.
Pre-Bid Meeting Date & Time:	31/05/2023 at 11.00 hrs. Venue : MIDC Office Complex, Mulund Check Naka, Thane (W)
Document download start date:	25/05/2023 at 10.00 hrs.
Bid submission start date:	01/06/2023 at 11.00 hrs.
Bid submission end date:	19/06/2023 at 10.00 hrs.
Date & Time for opening of the Tender:	20/06/2023 at 11.00 hrs. Venue : MIDC Office Complex, Mulund Check Naka, Thane (W)
Tender validity period:	<b>Six Months</b> from date of Acceptance of tender

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## **I. INTRODUCTION**

**Tarapur Modular Furniture Cluster, Palghar** a group comprising Micro Enterprises in geographical location in and around Tarapur, Boisar, Kudan, Chinchani, Pasthan, Vangaon, Dahanu Dist. Palghar identified under Govt. of India's Micro Small Enterprises- Cluster Development Programme (**MSE-CDP**).

**Micro Small Enterprises- Cluster Development Programme (MSE-CDP):** The Scheme is administered and monitored by O/o **Development Commissioner (MSME), M/o Micro, Small and Medium Enterprises, New Delhi**. A Special Purpose Vehicle namely, **M/s. Tarapur Modular Furniture Processing Association (SPV)** has been formed to execute and maintain the Common Facility Centre (CFC) proposed for **Tarapur Modular Furniture Cluster, Palghar**.

Common Facility Centre proposed to uplift MSE's in **Modular Furniture Processing sector**. CFC will consist of common processing facilities viz. Design & New Product Development Center, Common Processing Center and Skill Development Center for Modular Furniture Product Processing Industries / Enterprises.

A Purchase Committee under the Chairmanship of Joint Director of Industries, Konkan Region, Thane has been constituted for procurement of machinery / instrument / equipment etc, in respect of Common Facility Centre proposed for **M/s. Tarapur Modular Furniture Processing Association**, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502, State-Maharashtra, India.

Govt. of Maharashtra  
Directorate of Industries,  
O/o Joint Director of Industries, Konkan Region, Thane  
MIDC Office Complex, 1<sup>st</sup> Floor, Mulund Check Naka, Wagale Industrial Estate,  
Opp. Modela Wooden Mill, Thane (W) - 400 604  
Tel: 022-25828504; e-mail: [dirokonkan@maharashtra.gov.in](mailto:dirokonkan@maharashtra.gov.in)

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## E -TENDER NOTICE

Ref.No.:JDI/KONKAN/MSECDP/FC/2023-24/03

Date: 25/05/2023

**Joint Director of Industries, Konkan Region, Thane and Chairman of Purchase Committee, Cluster Development Programme, Thane** invites e-Tenders from reputed Manufacturers, Authorized distributors/Authorized dealers from India or abroad and their Indian reputed agents for supply of following Machinery/Equipment for Common Facility Center at **M/s. Tarapur Modular Furniture Processing Association, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502, State-Maharashtra, India.**

Sr.	Particulars	Last submission Date & Time
1	<b>SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER GENERATION SYSTEM</b>	19/06/2023 Up To 10.00 Hrs

1. Complete Tendering process will be **online** in two envelopes system viz. Technical & Commercial Bid. All the notification and detail terms & conditions regarding this e-tender notice here after available on web site [www.mahatenders.gov.in](http://www.mahatenders.gov.in). The guidelines to download the tender documents and on-line submission of bids and procedure of tender opening can be downloaded from above website.
2. Bidding documents can be seen and downloaded from the [www.mahatenders.gov.in](http://www.mahatenders.gov.in) from 25/05/2023 at 10.00 hrs to 19/06/2023 at 10.00 hrs.
3. The Bid can be submitted in **electronic format** only on the portal from date 01/06/2023 at 11.00 hrs. to 19/06/2023 at 10.00 hrs. The last date for submission of bid is up to 19/06/2023 at 10.00 hrs.
4. Bidders have to submit the Tender form fee and Earnest Money Deposit (EMD) using online banking option on <https://mahatenders.gov.in> as shown below:

Sr. No	Tender No.	Particulars	Quantity	Tender Form Fees INR	EMD INR
1	2	3	4	5	6
1	JDI/KONKAN/MSECDP/FC/2023-24/03	<b>SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER GENERATION SYSTEM</b>	As prescribed in Technical Specification	10,000/-	1,50,000/

- a) The downloading cost of tender documents is free.
- b) Bidder shall be required to submit Tender fee of Rs.10,000/- and Earnest Money Deposit of Rs. 1,50,000/- separately by Online banking options only on <https://mahatenders.gov.in> for tender No.**JDI/KONKAN/MSECDP/FC/2023-24/03 (SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER GENERATION SYSTEM)**
- c) Bid shall be treated as invalid if
- Scanned copies signed digitally are not submitted online along with the bid.
  - Tender Fee and EMD amount is not submitted by using online banking option on <https://mahatenders.gov.in>
5. Online Technical bid will be opened on 20/06/2023 at 11.00 hrs. in the O/o of the Joint Director of Industries, Konkan Region, Thane.
6. Bidder should submit originals of scanned copies for verification during Technical bids opening.
7. Bidder should submit information & scanned copies in **pdf format** only while submit online in Technical Envelope as mentioned in technical offer as per terms and conditions of the tender.
8. Bidder should upload **Bill of Quantity (BOQ)** after filling quotes in it online only.
9. Bidder should have valid class-III Digital Signature Certificate (DSC) obtained from any certifying Authorities as prescribed.
10. All the information regarding this tender is published on e-tendering portal [www.mahatenders.gov.in](http://www.mahatenders.gov.in) For Help support, Toll Free No. 0120-4001002, 0120-4001005, 0120-6277787.
11. Interpretation of the tender document is the responsibility of the bidder. It is the sole responsibility of the bidder to get all the terms cleared before submitting the bid.
12. **Joint Director of Industries, Konkan Region, Thane** reserves the right to accept or reject any or all the tenders without assigning any reason.

Date: 25/05/2023  
Place : THANE

**Sd/-**  
**(S. A. Bhamare)**  
Joint Director of Industries,  
Chairman of Purchase committee,  
Cluster Development Programme,  
Konkan Region, Thane.

### III (A) TERMS AND CONDITIONS – GENERAL

1. e-Tender documents available on [www.mahatenders.gov.in](http://www.mahatenders.gov.in) which is issued by the office of the Joint Director of Industries & Chairman, Purchase committee, Cluster Development Programme, MIDC Office Complex, Mulund Check Naka, Thane (W) – 400 604 to manufacturers/distributors/authorized dealers/registered firms from India and abroad and/or their Indian reputed agents for supply of machineries/equipments for Common Facility Center of **M/s. Tarapur Modular Furniture Processing Association, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502, State-Maharashtra, India.**
2. Modifications, if any, made in the above documents will be done by addenda/ corrigenda, copies of which will be available on [www.mahatenders.gov.in](http://www.mahatenders.gov.in). The bidder shall not make any additions/deletions to or amend the text of the documents except in so far as may be necessary to comply with any addenda/ corrigenda issued. The bidders shall use only tender documents as issued for submitting their bid and shall comply with various terms and conditions.
3. All pages of tender document shall be signed by the authorized person and submit the same in scanned copy of **PDF format** only.
4. The full name of the person authorized to file the tender with designation, present and registered office address, Phone / Mobile No., Fax No., e-mail address & website details shall be indicated in the tender.
5. The tender should be filled and submitted in **English only**. All accompanying literature and correspondence also in English, Hindi or Marathi.
6. Claim for costs, charges, expenses incurred by the bidder in connection with preparation of tender submission and for subsequent clarifications of their tender will not be entertained.
7. Purchase Committee will not be responsible for any typographical errors/ambiguity/additions/omissions committed by the bidder while filling up of the tender.
8. Submission of a bid by a Bidder implies that he has read all terms & conditions, and has made himself aware of the scope and specifications of the items to be supplied, availability of materials, local conditions and other factors bearing on the execution of the supply.
9. The bidder shall be deemed to have full knowledge of documents. No extra charges consequent on any misunderstanding.
10. The bidder shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender and about the rates quoted by him and cover all his obligations under the tender.
11. Bids submitted by manufacturers, Authorized distributors/ authorized dealers/ registered firms from India and abroad and/or their Indian reputed agents only will be considered.

12. **Tender Fees and Earnest Money Deposit:** Bidders have to submit the Tender Fee and Earnest Money Deposit using online Banking option on <https://mahatenders.gov.in> as indicated in Annexure-I for all items in tender being supplied in the form of Indian rupees currency (INR). The EMD amount of the unsuccessful bidder will be returned immediately after opening of the bids by online banking system only. **Bidder has to check his eligibility for exemption of Tender Fee and EMD amount, if applicable for NSIC/Micro & Small Enterprises (Manufacturer & for suppliers registered with Respective Registering Authorities / NSIC) as per Govt. directives.**
13. **Performance Security:** On confirmation/demand from the Joint Director of Industries, Konkan Region, Thane, the successful bidder shall have to deposit 5% amount of the total value of the contract towards interest free security deposit in the form of Demand Draft or Bank guarantee along with the relevant required documents if any. This Demand draft or bank guarantee shall be submitted along with the acceptance of the purchase order. The security deposit will be released without any interest only after satisfactory installation, commissioning & Functioning of the **Solar Power Generation System.**
14. **Authority of Signing:** If the tender is submitted by an individual, it shall be signed by him. If the tender is submitted by a proprietary firm, it shall be signed by the proprietor. If the tender is submitted by a partnership firm, it shall be signed by all the partners of the firm or by authorized partner. If the tender is submitted by a Pvt. Ltd. /Ltd company or a corporation, it shall be signed by a Director or legally authorized person. In the latter cases there has to be an authorization letter for filling the bids.
15. **Price/ Commercial Bid:**
  - **In case of Item wise tender, the Bidder should offer the prices for each and every items mentioned in the bid, otherwise liable to reject after opening of bids.**
  - The Tender shall be filled in English with a neat type and all the figures and words shall be legible.
  - The rates shall be written both in words and figures. The bidder shall also show the amount of each item, the total of each section and the grand total of the whole tender as specified.
  - The tenders shall be verified by the bidder for accuracy in the arithmetical calculations, prior to submission.
  - The price should be offered all inclusive in Indian rupees (INR).
16. 1 **Technical details/documents shall contain following:**
  - a) Compliance to technical specifications of the machinery/equipment/items for which bids are submitted as given in **Annexure I**. Compliance should be in same sequence as of specifications mentioned in documents. The range specified in the technical specifications should have min. or max. as the case may be.
  - b) Compliance to the terms and conditions of the tender document, Authorized person to specify, “all the terms and conditions given above will be complied with” and Digital Signature in respective pages of the tender documents, where “terms and conditions “are given.

- c) Adherence to the stipulated delivery schedule of the equipment/item– Authorized person to specify, “Delivery schedule given above will be complied with” and Digital Signature in respective pages of the tender documents, where “delivery schedule of each of the items” as is given in **Annexure II**.
- d) Covering letter on the letter head of the bidder stating:
- i) That the minimum warranty period of **Five year** after successful installation and commissioning of **Solar Power Generation System**.
  - ii) That the bid confirms to the terms and conditions of the tender.
  - iii) Confirmation that the quoted rates are valid till validity of the tender or a period of **Six Months** from the date of the tender whichever is later.
  - iv) The details regarding the service centers, stocking of spares etc.
  - v) The probable life expectancy of the machines as specified in the tender under Normal conditions of operation should be minimum **15 years**.
  - vi) Safety devices & mechanisms from various mechanical, fire, chemical & Electrical hazards must be incorporated in the machine and should be separately mentioned.
  - vii) We will not pledge the ordered Machinery / Equipment / Item with any financial institute or Bankers.
- e) Addenda/Corrigenda/Clarification issued by Chairman Purchase Committee before due date of tender, duly signed by the authorized person.
- f) A letter indicating assumptions, criterion, technical alternative etc., if any. However, the alternatives suggested by the bidder would not be taken as the basis for technical/commercial evaluation of the bids.
- g) All the details of pre-installation requirements including space, power supply, environmental conditions, special structures if any.

**17.2 Commercial details shall contain:**

**Total cost of the machinery / equipment / item and accessories (quoted in INR), duly filled and Digital Signature in the format prescribed commercial envelope.**

<b>SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER GENERATION SYSTEM</b>		
<b>Sr. No.</b>	<b>Cost details for Machinery/Equipments/Instruments quoted in INR</b>	<b>Cost in INR</b>
1	Total cost in CIF premises at <b>M/s. Tarapur Modular Furniture Processing Association, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. &amp; Dist. Palghar 401502, State-Maharashtra, India</b> , including GST, All applicable taxes, Clearing, Transportation, Insurance, Unloading, Installation & Commissioning, agency commission, packing, forwarding, On-site technological training, training for mechanical and electrical maintenance <b>for 4 persons for 2 weeks</b> , Internal Electrical Cable (Main Control Panel to individual Machine)	



17. **Validity of the Tender:** Rates quoted by the bidder shall be valid till the period of the tender or a minimum of **Six Months** from the acceptance of the tender, whichever is later. The bidder shall not withdraw or revise or alter any conditions, rate(s) quoted within this stated period.
18. **Opening of tender:** The tender shall be opened by the Purchase Committee constituted by the Competent authority, at the office of the Joint Director of Industries, Konkan Region, MIDC Office Complex, Mulund Check Naka, Thane (W) – 400 604, at the time, date and venue as given in the “Tender Notice”. Bid will be opened before the representatives who remain present at the time. The purchase committee shall not be liable for any representatives being absent.
19. **Agreement:** The successful bidder shall sign an Undertaking on Judicial paper worth **Rs. 500.00** in the format prescribed in Annexure IV before releasing of the purchase order by the office of the Joint Director of Industries, Konkan Region, MIDC Office Complex, Mulund Check Naka, Thane (W) – 400 604. A copy of the purchase order once received should be returned with a stamp and signature of the authorized person as a token of acceptance of the terms and conditions of the purchase order.
20. **Criterion for rejection:**
- a) The Purchase Committee reserves the right to accept or reject any tender or reject all tenders without giving any reasons whatsoever for their decision.
  - b) Tenders are liable to be rejected in which any of the prescribed particulars / information is either missing or incomplete in any respect and/or if the prescribed conditions are not fulfilled.
  - c) Tenders which are found to be technically non-responsive shall be rejected and their commercial details shall not be considered.
  - d) Canvassing in connection with tender is strictly prohibited and tender submitted by bidder will not be considered.
  - e) Tenders containing specific conditions of the bidder other than the terms and conditions given in the tender document and not acceptable to the Purchase Committee are liable to be reject.
  - f) If the tender document is not digitally signed online by the authorized person and photocopies validated by stamp and signature of the authorized person.
  - g) The bidder should quote for all the machinery/equipment specified in annexure I otherwise the tender will be rejected. However the commercial bid will be evaluated on the total cost.
  - h) The Special Purpose Vehicle will be catering to wide range of customers/stakeholders including the manufacturers/exporters. Hence, preference will be given to more popular brands of machines, which are widely accepted nationally & internationally.

Before submission of the tender, the prospective bidders are expected to examine technical specifications of the equipments/machinery required, terms and conditions etc., given in this tender document. Failure to furnish all information required in the tender document may result in the rejection of the bid. The Purchase Committee reserves the right to cancel items, from the list of requirement of equipments without assigning any reason thereof.

Date: 25/05/2023  
Place : THANE

**Sd/-**  
**(S. A. Bhamare)**  
Joint Director of Industries,  
Chairman of Purchase committee,  
Cluster Development Programme,  
Konkan Region, Thane.

### III (B) TERMS AND CONDITIONS – SPECIAL

1. **Cost Details:**

Cost details are to be filled up in the prescribed format for items as given at BOQ for all the machinery as applicable to indicating therein total **free delivery up to destination** at **M/s. Tarapur Modular Furniture Processing Association, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502, State-Maharashtra, India** including all types of national & international taxes, GST, freight, insurance, packing and forwarding, transport charges, loading/unloading, installation, erection and commissioning charges, any other taxes/charges/Local taxes as applicable etc.

2. All accessories & startup kit required for installation & commissioning the main equipment's are to be specified if any.

3. SPV and/or purchase committee will not be responsible in any way for any loss of or damage to life of a person/s appointed by bidder during supply, installation & commissioning of machinery as stated in Annexure I and for the purpose of training of technical personnel at the premises of Common Facility Centre of **M/s. Tarapur Modular Furniture Processing Association, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502, State-Maharashtra, India** and SPV and/or purchase committee will not pay any amount in whatsoever manner towards any such loss or damage.

4. **The terms of Payment for machinery / equipment / item shall be :**

a) 90% of the payment would be released on receipt and installation of the Solar Power Generation System at site in good condition, Subject to release of funds from GoI.

b) Balance 10% payments would be released on successful commissioning with proves out for required satisfactory performance, checks of the Solar Power Generation System at CFC, Subject to release of funds from GoI.

5. The bidder for **Supply, Installation and Commissioning of Solar Power Generation System** should provide adequate training **free of cost** for at least 4 technical personnel of the CFC per equipment including trouble shooting etc. and making them confident of operating the equipment independently.

6. The bidder shall adhere to the delivery period of the **Supply, Installation and Commissioning of Solar Power Generation System** as committed by him as indicated in Annexure II of the tender document. Penalty for non-execution of the order within the delivery period shall be 1% of the cost of the **Solar Power Generation System** for every week of delay and maximum 5% of the total value of the award.

7. The delivery, installation & commissioning period of the **Solar Power Generation System** as agreed should not be extended under normal conditions. Suitable penalty for non-execution of the order may be enforced to the extent of 1% of the cost of **Solar Power Generation System** for every week extended and maximum 5% of the total value of the award. In case of the delay beyond scheduled period due to some unforeseen reason, written permission is required from the Chairman, Purchase Committee with proper justification to avoid penalty.

8. The bidder shall give warranty for at least **Five year** in respect of items quoted after successful commissioning of the **Solar Power Generation System**.
9. During the warranty period, regular servicing/maintenance should be undertaken free of charge, including replacement of defective parts/travel cost, etc. Subsequently, servicing/maintenance should be undertaken **every 3 months** by the authorized agency of the manufacturer/supplier.
10. Operation manuals and other instruction manuals should be provided in English along with machine drawing, electrical drawing etc.
11. The bidder shall also mention the probable life expectancy of the machine/instrument/accessory under normal condition of operation wherever applicable.
12. In case of short supply or wrong **Supply, Installation and Commissioning of Solar Power Generation System**, its parts of accessories or supply of items in damaged conditions; it is the responsibility of the bidder to arrange for the supply of the required items in working condition as per the purchase order, within a reasonable time. Any additional expenditure, whatsoever, for the above will be borne by the bidder only.
13. Orders for the supply of items, once placed with successful bidder is nontransferable and sub-contracting is not permitted. The Purchase Committee reserves the right to cancel the order in such an event.
14. Any non-fulfillment of the stipulation given above will make the bid invalid.
15. The bids shall first be evaluated on the “Technical parameters” which shall inter-alia included, otherwise will be considered as a technically disqualified.

**Proof that the bidder is**

- i. Either manufacturer or an Authorized Distributor/ Authorized Dealer or reputed Supplier for the **Solar Power Generation System** for which the bid is submitted.
- ii. Compliance to technical specifications of the **Solar Power Generation System** for which the bid is submitted.
- iii. Constitution documents of Manufacturer / Supplier (Proprietor / Partnership / Pvt. Ltd Co. / HUF / Co-Operative, etc.)
- iv. GST Certificate.
- v. PAN allotment Certificate/PAN CARD issued by Income Tax Department.
- vi. Income Tax Returns for last 03 years.
- vii. A covering letter duly signed by the authorized person as per the specimen given at **Annexure III** of the tender document.
- viii. Descriptive leaflet/brochure of the equipment quoted to be closed along with the technical details.
- ix. Assumptions and Pre-Installation Conditions, if any.
- x. **Annexure II** of the tender document.
- xi. Compliance to all other relevant and critical terms & conditions of the tender.

Original copies of Documents submitted for technical qualification should be produced for verification, if required.

If any of the above mentioned parameters are not fulfilled, the bid will be considered as technically disqualified.

16. **Submission of Bids:** The Documents have to be uploaded by the bidder as per the below sequence only and as per the naming sequence given below only. In case the bidder wishes to add any other documents then he may do so only in Pre-installation requirements.

- i. All pages of the tender document are to be signed and uploaded.
- ii. Letter from OEM in case of Authorized distributor/ dealer.
- iii. Board Resolution / Proof of Authorization for signing.
- iv. A covering letter duly signed by the authorized person as per the specimen given at **Annexure III** of the tender document.
- v. Descriptive leaflet/brochure of the machinery/equipment/item quoted to be enclosed along with the technical details.
- vi. Pre-Installation conditions if any.
- vii. GST Certificate.
- viii. Copy of PAN allotment Certificate/PANCARD issued by Income Tax Department
- ix. Income Tax Returns for last 03 years.
- x. Constitution documents of Manufacturer / Supplier (Proprietor / Partnership / Pvt. Ltd Co. / HUF / Co-Operative, etc.
- xi. Annexure I (List of machine to be procured and EMD value and technical specifications along with the Compliance statement). **BID WILL NOT BE ACCEPTED WITHOUT DETAILED COMPLIANCE / TECHNICAL SPECIFICATION REPORTS. THE BIDDER SHOULD MENTION THE DEVIATION IN THE SPECIFICATION IF ANY, WITH ACCEPTANCE VALUES.**
- xii. Delivery and commissioning schedule of machine / equipment as per Annexure II of the tender document (on the letter head).
- xiii. Documents / PO (on customers/buyer letter head) regarding **Supply, Installation and Commissioning of Solar Power Generation System** for the cost of 75% or more of the estimated cost during each of the previous three financial years.
- xiv. Satisfactory performance reports from three customers on their letter head regarding successful installation, commissioning & operation of **Supply, Installation and Commissioning of Solar Power Generation System** during previous three financial years.

17. **Settlement of dispute:** All the disputes and differences of any kind, what so ever, arising out of or in connection with the contract, whether during the progress of the work or after the completion shall be referred by the bidder to the competent authority of Directorate of Industries (Govt. of Maharashtra), Mumbai.

18. The venue of the arbitration shall be Thane. The laws of India shall govern this agreement. Both parties irrevocably submit to the exclusive jurisdiction of the Courts in Thane only, for any action or proceeding regarding this.
19. Delayed payment claim pertaining to this contract will not be applicable in any industrial facilitation council or any other court.
20. The specifications given above are to be used for guidance. The bidder will have to ensure compliance with the details set out in **Annexure1**. The bidder is at liberty to include extra features in lieu of the required features; however this will not ensure that the bid will be accepted.
21. Bidder should read and abide the **DISCLAIMER** mentioned at tender document.

**Sd/-**

**(S. A. Bhamare)**

Joint Director of Industries,  
Chairman of Purchase committee,  
Cluster Development Programme,  
Konkan Region, Thane.

Date: 25/05/2023

Place : THANE

**Disclaimer:** The purchase committee under the chairmanship of Joint Director of Industries, Konkan Region, Thane with representative of SPV (M/s. Tarapur Modular Furniture Processing Association, Palghar) and GoI constituted as an administrative arrangement. All the procurement for establishment of CFC is done on behalf of SPV (M/s. Tarapur Modular Furniture Processing Association, Palghar) by the Purchase Committee. Work order / Purchase order under this tender will be issued to the selected bidder under the signature of the Chairman of Purchase Committee, Joint Director of Industries, Konkan Region, Thane. However, the tax invoices are to be raised by the supplier / bidder in the name of SPV and payment will be done by SPV only. For legal purpose, SPV (M/s. Tarapur Modular Furniture Processing Association, Palghar) is the buyer / purchaser in this procurement process.

## DETAILS OF ANNEXURES

### ANNEXURE I: LIST OF MACHINES TO BE PROCURED AND EMD VALUE

**Name of Machine: SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER GENERATION SYSTEM**

**Qty: As prescribed in Technical Specification**

Sr. No.	Name of equipment	Place of installation	Total EMD to be paid (Amount in INR)
01	<b>SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER GENERATION SYSTEM</b>	Common Facility Centre of M/s. Tarapur Modular Furniture Processing Association, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502, State-Maharashtra, India	1,50,000/-

### Technical Specifications

SR. NO.	NAME OF THE MACHINE / EQUIPMENT	SPECIFICATIONS	QTY																																																																																								
1	<b>SOLAR POWER GENERATION SYSTEM</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr</th> <th style="text-align: center;">Equipment</th> <th style="text-align: center;">Qty</th> <th style="text-align: center;">Unit</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td>Solar PV module: 540 Wp, Monoperc</td><td style="text-align: center;">222</td><td style="text-align: center;">No</td></tr> <tr><td style="text-align: center;">2</td><td>MMS for GI Sheet rooftop – Rails</td><td style="text-align: center;">1</td><td style="text-align: center;">Set</td></tr> <tr><td style="text-align: center;">3</td><td>Panel mounting elevated structure with full Metal Roof shade</td><td style="text-align: center;">1</td><td style="text-align: center;">Set</td></tr> <tr><td style="text-align: center;">4</td><td>60K 5G 3 Phase 9MPPT W/DC</td><td style="text-align: center;">2</td><td style="text-align: center;">No</td></tr> <tr><td style="text-align: center;">5</td><td>30k 5G Dc 3 Phase Invert</td><td style="text-align: center;">1</td><td style="text-align: center;">No</td></tr> <tr><td style="text-align: center;">6</td><td>RS485 Communication Cable</td><td style="text-align: center;">10</td><td style="text-align: center;">M</td></tr> <tr><td style="text-align: center;">7</td><td>Monitoring Data Logger I TAP</td><td style="text-align: center;">1</td><td style="text-align: center;">Set</td></tr> <tr><td style="text-align: center;">8</td><td>3 IN 1 Out ACDB with 160 A 4P ISO</td><td style="text-align: center;">1</td><td style="text-align: center;">Set</td></tr> <tr><td style="text-align: center;">9</td><td>AC Isolation Panel 160A with 3.5C</td><td style="text-align: center;">2</td><td style="text-align: center;">Set</td></tr> <tr><td style="text-align: center;">10</td><td>Solar DC Cable 4SQMM Black EN50618</td><td style="text-align: center;">2040</td><td style="text-align: center;">M</td></tr> <tr><td style="text-align: center;">11</td><td>4CX50SQMM UnArm CU Cable</td><td style="text-align: center;">4</td><td style="text-align: center;">M</td></tr> <tr><td style="text-align: center;">12</td><td>3.5CX70SQMM XLPE Arm AL Cable</td><td style="text-align: center;">100</td><td style="text-align: center;">M</td></tr> <tr><td style="text-align: center;">13</td><td>3.5CX95SQMM Arm XLPE AL Cable</td><td style="text-align: center;">100</td><td style="text-align: center;">M</td></tr> <tr><td style="text-align: center;">14</td><td>Earthing Kit 1.5M 14.2MM Dia Copper B</td><td style="text-align: center;">6</td><td style="text-align: center;">set</td></tr> <tr><td style="text-align: center;">15</td><td>Earthing Strips Galvanized Ion 25X3</td><td style="text-align: center;">200</td><td style="text-align: center;">M</td></tr> <tr><td style="text-align: center;">16</td><td>MC 4 Cable Couplers (Male/Female Pairs)</td><td style="text-align: center;">1</td><td style="text-align: center;">SET</td></tr> <tr><td style="text-align: center;">17</td><td>ESE TYPE LIGHTNING ARRESTOR WITH EARTHING</td><td style="text-align: center;">1</td><td style="text-align: center;">SET</td></tr> <tr><td style="text-align: center;">18</td><td>Installation Kit</td><td style="text-align: center;">1</td><td style="text-align: center;">No</td></tr> <tr><td style="text-align: center;">19</td><td>MANUAL MODULE CLEANING SYSTEM 1” UPVC/HDPE PIPE VALVES AND FLEXIBLE HOSE PIPE. CUSTOMER TO PROVIDE WATER AT 2-4 BAR PRESURRE AT ROOF LEVEL</td><td style="text-align: center;">1</td><td style="text-align: center;">SET</td></tr> <tr><td style="text-align: center;">20</td><td>WALKWAY PRE-GALVALUME 340MM WID</td><td style="text-align: center;">350</td><td style="text-align: center;">M</td></tr> <tr><td style="text-align: center;">21</td><td>SEFTY LINE SS 304 TYPE</td><td style="text-align: center;">365</td><td style="text-align: center;">M</td></tr> </tbody> </table>	Sr	Equipment	Qty	Unit	1	Solar PV module: 540 Wp, Monoperc	222	No	2	MMS for GI Sheet rooftop – Rails	1	Set	3	Panel mounting elevated structure with full Metal Roof shade	1	Set	4	60K 5G 3 Phase 9MPPT W/DC	2	No	5	30k 5G Dc 3 Phase Invert	1	No	6	RS485 Communication Cable	10	M	7	Monitoring Data Logger I TAP	1	Set	8	3 IN 1 Out ACDB with 160 A 4P ISO	1	Set	9	AC Isolation Panel 160A with 3.5C	2	Set	10	Solar DC Cable 4SQMM Black EN50618	2040	M	11	4CX50SQMM UnArm CU Cable	4	M	12	3.5CX70SQMM XLPE Arm AL Cable	100	M	13	3.5CX95SQMM Arm XLPE AL Cable	100	M	14	Earthing Kit 1.5M 14.2MM Dia Copper B	6	set	15	Earthing Strips Galvanized Ion 25X3	200	M	16	MC 4 Cable Couplers (Male/Female Pairs)	1	SET	17	ESE TYPE LIGHTNING ARRESTOR WITH EARTHING	1	SET	18	Installation Kit	1	No	19	MANUAL MODULE CLEANING SYSTEM 1” UPVC/HDPE PIPE VALVES AND FLEXIBLE HOSE PIPE. CUSTOMER TO PROVIDE WATER AT 2-4 BAR PRESURRE AT ROOF LEVEL	1	SET	20	WALKWAY PRE-GALVALUME 340MM WID	350	M	21	SEFTY LINE SS 304 TYPE	365	M	1 SET
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		17	Safety Lines	As per standards
		18	Walkway (GI)	As per standards
		19	Staircase/Monkey Ladder	Site Access (Staircase) for maintenance and cleaning.
		20	Metering	One Set of (Solar Check) Meter considered per Roof.
		21	CEIG (Chief Electrical Inspector to Government) and Net Metering Approval	Liasoning for Net-Metering and CEIG should be considered As Per Standard. Including statutory fees and hardware cost
		22	Spare Feeder with Switchgear of requisite capacity	Switchgear of appropriate capacity As Per Standard Spare Enclosure for mounting MCCB in Customer Scope
		23	Fire Fighting Equipment's	As Per Standard
		24	Miscellaneous Safety Equipment	PPE As Per Standard (On returnable basis)
		25	Design & Engineering of Plant	As Per Standard
		26	Erection, Testing & Commissioning of Plant	As Per Standard
		27	Foundation for ACDB	As Per Standard
		28	Cable Trenches	Existing Trenches considered
		29	Control Rooms (RCC/PEB)	Existing Covered Space in Control Room considered
		30	Water Drainage	Provisions should be made by bidder only
		31	Water and Electricity	Supply of Free Water and Free Electricity will be provided by us. I&C and O&M (If Appl.)
		32	Operation and Maintenance of Plant-	As per standard time line
<b>AUTO ELEVATING TYPE SOLAR POWER GENERATION SYSTEM</b>				
<b>Required Scope of Work</b>				
O&M (including 2 Cleaning cycle/month) should inclusive in the contract for 5 years.				
<b>1. Cleaning</b>				
a. Cleaning of PV modules with slit free 200 TDS water at quantity rate of max. 1.5 lit/module - 2 cycles a month.				
b. Inverter filters cleaning, AJB, Power Distribution Panels checking Twice in a quarter				
<b>2. Structure</b>				
a. Structure healthiness check like rusting, breaking etc. and addressal of the issues if found any				
b. Frequency-Half yearly				

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		<p><b>3. Reliability Centred Maintenance</b></p> <ul style="list-style-type: none"> <li>a.Preventive maintenance of the complete plant - String healthiness, presence of burn marks or local hotspots, Inverter checking, checking of healthiness of power distribution panels etc.</li> <li>b. Integrity improvement (proper identification of strings and all cables)</li> <li>c.Frequency-Monthly</li> </ul> <p><b>4. Warranty Consultation</b></p> <ul style="list-style-type: none"> <li>a.Items under warranty replaced within agreed timeline</li> <li>b. Frequency- As and when required</li> <li>c.Panel guaranty- 25 years</li> </ul> <p><b>5. Breakdown Calls</b></p> <ul style="list-style-type: none"> <li>a.To be responded within two hrs. and resolution within 24 to 48hrs for minor issues like string problem etc. on a working day.</li> <li>b. Call log notification time will start from the time a mail has been triggered by the Solar Log system or Customer reports any abnormality</li> <li>c.Visits of any OEM Engineer should be organized by bidder wherever specialized input is required for addressing the breakdowns at site</li> <li>d. Frequency- Unlimited unless limit specified</li> </ul> <p><b>6. Manning</b></p> <ul style="list-style-type: none"> <li>a.Competent persons through Authorized Service centre will always be deputed to respond the calls who are aware of safety and statutory norms.</li> <li>b. Offline analytics team for data analysis and intelligence inputs should be arrange by bidder</li> </ul> <p><b>Required services and items:</b></p> <ul style="list-style-type: none"> <li>1. Modules damages due to external impact will covered in this contract. Any electrical fault in module will be addressed and rectified.</li> <li>2. Any statutory approval as required</li> <li>3. Security/safety structure for the site</li> <li>4. Water for module cleaning</li> <li>5. Internet connectivity for remote monitoring of the plant</li> <li>6. Permanent Rooftop access (Lift/Ladder/Staircase/Scaffolding) during Project Execution.</li> </ul>	

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		<p>7. Any kind of fabrication as required towards the safety railings, canopies, etc.</p> <p>8. Operation &amp; Maintenance.</p> <p>9. Computer, internet connectivity and related hardware</p> <p>10. Water cleaning arrangement</p> <p>11. Spare Feeder Panel / Enclosure at LT panel for Evacuation of Power</p> <p><b>Safety Requirements-</b>  <b>Inverters complying with the latest safety standards in the Industry</b></p> <table border="1" data-bbox="618 590 1365 926"> <tr> <td>Anti-Islanding Protection / Grid Regulation</td> <td>VDE-AR-N 4105; VDE 0126-1-1</td> </tr> <tr> <td>EMC</td> <td>EN 61000-6-2; EN 61000-6-4</td> </tr> <tr> <td>Safety</td> <td>IEC 62109-1/-2</td> </tr> <tr> <td>Efficiency</td> <td>IEC 61683: 1999</td> </tr> <tr> <td>Environmental Testing</td> <td>IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-14; IEC 60068-2-30; IEC 60068-2-6; IEC 60068-2-21; IEC 60068-2-78 (As Per MNRE/SECI Requirement)</td> </tr> <tr> <td>Ingress Protection</td> <td>IEC 60529</td> </tr> </table> <p><b>Other In-built Protections in Inverters</b></p> <table border="1" data-bbox="618 982 1365 1352"> <tr> <td>AC/DC Disconnection Switch</td> <td>Yes</td> </tr> <tr> <td>Ground Fault Monitoring / Grid Monitoring</td> <td>Yes</td> </tr> <tr> <td>DC Reverse Polarity Protection</td> <td>Yes</td> </tr> <tr> <td>DC and AC Over Voltage / Current Limitation Protection</td> <td>Yes</td> </tr> <tr> <td>DC and AC Short Circuit Protection</td> <td>Yes</td> </tr> <tr> <td>DC String Fuse (Positive &amp; Negative)</td> <td>Yes, PV Fuse – 1000V, 15A</td> </tr> <tr> <td>Surge Protection – Inbuilt</td> <td>Yes, Type 2 DC – (One for each MPPT) &amp; AC input</td> </tr> </table> <p><b>DC Cable Safety Standards</b></p> <table border="1" data-bbox="618 1402 1365 1650"> <tr> <td>Low Smoke emission</td> <td>As per IEC 61034 / EN50268-2</td> </tr> <tr> <td>Flame Retardant</td> <td>AS per IEC 60332-1 /UL 1581 1061 / VW1</td> </tr> <tr> <td>Fire load</td> <td>As per DIN 51900</td> </tr> <tr> <td>No Hazardous and toxic substance</td> <td>As per EU-Directive 2002/95/EG (ROHS) / PAK</td> </tr> <tr> <td>Weight</td> <td>60 Kg ± 10%</td> </tr> <tr> <td>Estimated Life</td> <td>25 Years</td> </tr> </table> <p>1) Breakers should use at Grid Interface Panel (GIP) and Inverter Interface Panel (IIP) levels in the required number to provide optimum protection to the electrical system.</p> <p>2) Aluminum Cables complying with ISO 9001-2008 and OHSAS 18001-2007 standards are used, in compliance with standard industry safety requirement.</p> <p><b>Note- Use same brand or brands with same specifications.</b></p>	Anti-Islanding Protection / Grid Regulation	VDE-AR-N 4105; VDE 0126-1-1	EMC	EN 61000-6-2; EN 61000-6-4	Safety	IEC 62109-1/-2	Efficiency	IEC 61683: 1999	Environmental Testing	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-14; IEC 60068-2-30; IEC 60068-2-6; IEC 60068-2-21; IEC 60068-2-78 (As Per MNRE/SECI Requirement)	Ingress Protection	IEC 60529	AC/DC Disconnection Switch	Yes	Ground Fault Monitoring / Grid Monitoring	Yes	DC Reverse Polarity Protection	Yes	DC and AC Over Voltage / Current Limitation Protection	Yes	DC and AC Short Circuit Protection	Yes	DC String Fuse (Positive & Negative)	Yes, PV Fuse – 1000V, 15A	Surge Protection – Inbuilt	Yes, Type 2 DC – (One for each MPPT) & AC input	Low Smoke emission	As per IEC 61034 / EN50268-2	Flame Retardant	AS per IEC 60332-1 /UL 1581 1061 / VW1	Fire load	As per DIN 51900	No Hazardous and toxic substance	As per EU-Directive 2002/95/EG (ROHS) / PAK	Weight	60 Kg ± 10%	Estimated Life	25 Years	
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Flame Retardant	AS per IEC 60332-1 /UL 1581 1061 / VW1																																								
Fire load	As per DIN 51900																																								
No Hazardous and toxic substance	As per EU-Directive 2002/95/EG (ROHS) / PAK																																								
Weight	60 Kg ± 10%																																								
Estimated Life	25 Years																																								

**ANNEXURE II-DELIVERY AND COMMISSIONING SCHEDULE OF MACHINE**

<b>Item No.</b>	<b>Delivery, installation &amp; successful commissioning of Particular of</b>	
1	<b>SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR POWER GENERATION SYSTEM</b>	Within <b>Four Months</b> from the date of issue of Award.

### ANNEXURE III

(FORMAT TO BE FILLED UP AND SUBMITTED ON THE LETTER HEAD OF THE BIDDER)

To,  
Joint Director of Industries,  
Konkan Region & Chairman of  
Purchase committee,  
MIDC Office Complex, Mulund Check Naka,  
Thane (W) – 400 604

Sub: **Supply of machinery/equipment to the common facility center of M/s. Tarapur Modular Furniture Processing Association, Survey No. 22/4/3/3, Ambatpada, Parnali, Boisar-Tarapur Road, Tal. & Dist. Palghar 401502, State-Maharashtra, India as per the specification and quantities mentioned in the tender No. JDI/KONKAN/MSECDP/FC/2023-24/03**

Sir,

Having examined the conditions of Tender and Specifications of the “**Supply, Installation and Commissioning of Solar Power Generation System**”.

We, the undersigned, offer to **Supply, Installation and Commissioning of Solar Power Generation System** as mentioned in the **Annexure I** as per the quantity and specifications given in the tender along with standard spares/accessories as specified.

We are quoting for the above mentioned machinery/equipment/item in BOQ. Our bid would be valid for the period specified in the tender document and confirms to the terms and conditions of the tender document.

Earnest Money Deposit of INR \_\_\_\_\_ (Rupees: \_\_\_\_\_) as given in **Annexure-I** has submitted using online Banking option on <https://mahatenders.gov.in>.

The original e-tender document duly digital signature on all pages is enclosed.

If our offer is accepted, we undertake to **Supply, Installation and Commissioning of Solar Power Generation System** and install the same in the Common Facility Centre (CFC) as mentioned in the tender within the specified periods mentioned in **Annexure II** from the date of receipt of the order from the Chairman, Purchase Committee, in writing.

We agree to supply consumable spare parts and replacement of the broken/damaged/ non-compatible parts during the guarantee/warranty period, free of charge, as per the terms and conditions. The warranty period for the machine is **Five years** from the date of commissioning of the machine at the SPV premises.

The details of our Service centers and offices are as per the annexure attached.

We confirm that the machine is stable and equipped with all necessary safety devices and signage.

We confirm that the minimum probable life expectancy of the machine is \_\_\_ yrs under normal usage and circumstances.

We agree to train the personnel of SPV at the CFC free of charge, as per the terms and conditions.

If our offer is accepted we will, obtain and arrange:

1. To sign an Undertaking on Judicial paper worth Rs. 500.00 in the format prescribed in Annexure IV before releasing of the Purchase order.
2. Any other statutory obligation, if any, to commencement of supply of machinery.

We shall use only tender documents as issued for submitting our bid and shall comply with various terms and conditions.

Unless and until a formal Agreement/order is prepared and issued, this tender together with your written acceptance thereof, shall constitute a binding contract between us and Chairman Purchase Committee.

We understand that you are not bound to accept the lowest or any tender you may receive.

We agree to make a presentation of the products to be supplied by us, before the Purchase Committee if need be on a mutually convenient date.

Authorized Signatory of Bidder :  
Name :  
Designation/ Capacity :  
Date :

**ANNEXURE IV - (TO BE SUBMITTED BY THE BIDDER ON RS. 500/- STAMP PAPER)**

Tender Reference No.: \_\_\_\_\_ Dated \_\_\_\_\_

**UNDERTAKING / DECLARATION**

To,  
Joint Director of Industries,  
Konkan Region & Chairman of  
Purchase committee,  
MIDC Office Complex, Mulund Check Naka,  
Thane (W) – 400 604

Dear Sir.

I/We, \_\_\_\_\_ (Bidder's Name & Address) undertake to supply the item - **“Supply, Installation and Commissioning of Solar Power Generation System”** as per the detailed specification of e-Tender and honors the terms and conditions of the tender document.

I/We undertake to supply the **Solar Power Generation System** within the stipulated period of time and accept the penalty clause imposed by Purchase Committee as per the terms and conditions of the Tender.

I/We undertake that during the warranty period, regular servicing/maintenance will be carried out as per the Warranty Clause.

I/We undertake to provide adequate training (normal operation, trouble shooting) to Four technical personnel of the Common Facility Center on the supplied **Solar Power Generation System** and making them confident of operating it independently.

I/We agree that the full payment will be released to us only after completion of satisfactory installation, trial and training on the said machinery / instrument / equipment etc.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 2023

Authorized Signatory of Bidder :

Name :

Designation/ Capacity :

Date :

## CHECK LIST TO THE BIDDERS

1. Get all clarifications regarding terms and conditions, specification etc. during the pre-bid meeting or by writing to the Joint Director of Industries, Konkan Region, Thane prior to submission of bid.
2. The Original tender document in full, along with the technical details/supporting documents/enclosures should be duly signed on all the pages.
3. Fill up the relevant compliance columns in the specifications given for the machinery/instrument/equipment/etc. quoted by stating, in case of any deviation in the specifications, the details may be given separately as Annexure.
4. A covering letter duly signed by the authorized person as per the specimen given at Annexure IV of the tender document (Annexure-III).
5. Descriptive leaflet/brochure of the equipment quoted to be enclosed along with the technical details.
6. The Technical and commercial details are to be submitted separately super scribing “Cover-A” – Technical Bid/details for “**Supply, Installation and Commissioning of Solar Power Generation System**” and “Cover-B” – Commercial Bid/details for “**Supply, Installation and Commissioning of Solar Power Generation System**”.
7. Proof regarding manufacturer/authorized agent/supplier, as the case may be, is enclosed.
8. Prior to submission of bids, bidders have to ensure that the machinery/equipment quoted by them is manufactured as per the international standard mentioned in the specification.
9. Cost details are to be given in the prescribed format only.

*Note: If the bidder fails to furnish all the relevant document/information as mentioned in the Tender Document, the Tender will be rejected.*