

**OFFICE OF THE
REGULATED MARKET COMMITTEE, DIGAPAHANDI**

At: Cotton Market Yard, PO: Digapahandi, Dist: Ganjam, PIN:761012

E-mail: rmc diga@gmail.com

Notice No.: 321/RMC

Date: 26 /12 /2023

Request For Quotation (RFQ)

A. Brief description of the work:

The Sub-Collector, Berhampur-cum-chairman RMC, Digapahandi on behalf of the RMC, Digapahandi invites sealed RFQ from reputed expert Agencies/Companies to submit a proposal for complete engineering, supply and procurement of materials and supervision of fabrication, erection, testing, pre-commissioning, commissioning and ecosystem services for 10 MT Solar Cold Room with grid connected at following places under RMC Digapahandi, Dist: Ganjam.

1. Flower Market, Ambapua, Berhampur
2. Kalabada Market Yard of Chikiti Block

Important Dates

The RMC, Digapahandi would endeavor to adhere to the following schedule: -

Sl. No.	Parameters	Date & Time
01	Submission of the Proposal document	On or before 12.01.2024 up to 5.00 PM
02	Opening of the Proposal document	On 17/01/2024 at 4.00 PM in the office of Sub Collector, Berhampur

B. Communications:

All communications including the submission of the Proposal should be addressed to:

The Secretary,
Regulated Market Committee, Digapahandi
At – Cotton Market Yard, PO - Digapahandi,
Dist - Ganjam, PIN -761012
E-mail: rmc diga@gmail.com

Applicant should submit their proposal in a sealed envelope clearly indicating “Proposal for supply, installation, commissioning for 10 MT Solar Cold Rooms at Flower Market, Ambapua/ Kalabada RMC Yard under RMC, Digapahandi, Dist-Ganjam.”



C. SCOPE OF WORK

The scope, in brief, will be as follows:

Description of Goods and Services	
A. Hardware Components: Supply and installation of 10MT Solar Cold Room with Thermal storage as a backup unit	
Configuration	<ul style="list-style-type: none"> Outdoor configuration on 34 ft x 13.5 ft platform. Internal volume of 1500 CFT. Walls & ceiling of 100 mm PUF with 40 kg/m³, 0.40 mm PPGI. Flooring of 80mm PUF, 12mm marine ply & 0.9mm Al chequered. Door with 6 ft x 3 ft opening, 100 mm thick PUF, PVC curtain.
Number of chambers	Two chambers with separate doors and temperature set point for storing multi-commodities.
Temperature range	2 to 10 °C set point.
Solar PV system	9.8 kWp, monocrystalline
Compressor	Two machines of 100% cooling capacity 4.0 TR, make: Frascold / Bitzer/ similar capacity of reputed make. OEM certification of the TR capacity at -5 °C evaporating and 45 °C condensing temperature is required.
Refrigerant	Zero ozone-depleting type./ ecofriendly.
Condenser	Copper tube & aluminium fin.
Evaporator	Copper tube & aluminium fin, 3000 CFM minimum airflow, SS 304 outer body.
Thermal storage	Minimum 350 MJ. The minimum phase change material quantity is to be 1000 kg. A fully charged thermal storage shall be able to cool a minimum of 2000 kg of produce from 35 to 5 °C if kept just after sunset by the farmer.
Battery Storage	Minimum 48 V 200 Ah, 10% discharge rating, 5 years OEM warranty. Make: Amaron / Okaya / Exide./similar capacity of reputed make If the overall auxiliary load is more than the discharge rating of the battery, the battery size needs to be accordingly increased.
Axial fans	Brushless fans for condenser and evaporator.



Solar Structure	Hot dip galvanized with 11 ° degree tilt.
Cold room roofing	Corrugated sheet for waterproofing.
Alternate power	1 phase, 220 VAC, 5 kVA, automatic changeover.
Wi-Fi based CCTV	3 CCTV cameras covering the entire location around the cold room. GSM SIM to be provided by the client.
B. Software Components: Integration of real-time monitoring system	
Health Monitoring of systems	<ul style="list-style-type: none"> • Performance monitoring of technology components such as compressor, thermal storage, solar PV system, Battery, inlet temp sensors and others. • Defining the preventive maintenance of various components. • GSM-based online monitoring. GSM SIM to be supplied by the client.
Commodity Monitoring	<ul style="list-style-type: none"> • Integration of the Coldtivate app to manage inventory of the cold room and its shelf-life monitoring.
CCTV software	<ul style="list-style-type: none"> • Monitor the movement around the cold room and ensure protection.
C. Soft Components: Integration of capacity building / sensitization/ promotion of cold room / market linkage to cold room units	
Site Analysis	To understand the existing site condition, site preparation, site beautification requirements, and statutory approvals.
Supply Survey	To understand the supply pattern of various commodities by the farmers.
Demand Survey	To understand the demand pattern of various commodities by the bulk institutions (hospitals, hotels, hostels, canteen, restaurants, NGOs, etc.).
Training & Capacity Building	<p>Training of operators and provision of handholding services to manage the cold room on various sessions which include:</p> <ol style="list-style-type: none"> a. Cold room management (quality inspection, storage, inventory check-in, check-out) b. Coldtivate operations: user registration process, check-in, check-out, warning signal dissemination c. Dealing with cooling users and facilitating. d. Maintain financial and stock registers online and offline. e. Others as on a need basis.
Governance Model	To setup a governance model in order to operate the cold room infrastructure efficiently.



Sensitizing farmers and vendors	Cold room ambassador programme to promote cold rooms among farmers and vendors.
Market Linkage Support	Facilitate linkage of cold rooms to various markets.
Central Monitoring System	To monitor the entire cold room (new and existing) performance through a centralized tracking system.
<i>D. Others: Warranty, Insurance, chamber partition</i>	
Insurance	Insurance on the name of the end user should be covered for 1 year protecting the entire cold room set up / machinery and commodities to be stocked inside to a total value of INR 30,00,000/-
Warranty	System warranty for 5 years. Solar PV module performance warranty from OEM for 25 years. Battery warranty from OEM for 5 years.

D. TERMS AND CONDITION

1. A layout plan of the site clearly indicating the required area for installation of the refrigeration System, Thermal Storage Backup, Cold Storage Room, Solar PV System, Structures, and other components with necessary civil works shall have to be submitted. Work orders shall be issued only after receipt of satisfactory reports suitable for system installation.
2. Bidder to provide details and requirements of civil foundation with load calculation for the setup of the cold room.
3. Bidder to ensure supply of all electrical, instrument, insulation, and mechanical items for the proper execution of the work. Any requirement during erection and commission should be taken care of without any time or cost implications.
4. Bidder to provide a detailed planning schedule for time-bound smooth execution of the project.
5. The selected bidder shall provide a BG of 10,00,000/- (Rupees Ten Lacs) before the start of work in the name of RMC, Digapahandi. It will be returned after the completion of the project.
6. The installation of the Cold room has to be completed within 60 (sixty) days of receiving of work order from the party.
7. Bidder to provide User Manuals and Warranty Cards to the beneficiary.
8. Providing Prompt Service Facilities to the customers/ beneficiaries.
9. The risk liability of all personnel associated with the implementation and realization of the project lies with the bidder.



10. The bidder shall maintain sufficient inventory of the spares to ensure that the system can be made functional within 3 (Three) days from the communication of the breakdown of the system during the warranty period.
11. The contractor shall run the system on a trial basis and shall closely monitor the performance of the system before handing it over.
12. Performance Guarantee Test: A successful performance guarantee test to demonstrate the rated capacity of the Cold Room as per norms shall have to be conducted in the presence of representatives of RMC if required. Wherein they need to assist them with how to use the product and how to maintain and service the cold room.
13. Bidder to specify any requirement from the client before the start of execution, Installation, and commissioning of the project. Any requirement mentioned after the award of the contract needs to be taken care of by the Bidder without any time and cost installation.

E. Selection Criteria

1. The selection will be done in a 2-stage process. The applicants are requested to quote the Tender in a sealed envelope i.e., **technical bid** indicating prerequisites as per specimen at Annexure-I (A, B & C) and **Price bid** as per specimen at Annexure-II. The sealed envelopes shall be super scribed as i.e., *Technical Bid* and *Price Bid*. Such two separate envelopes are to be submitted in one single sealed cover super scribed with the tender reference number and deposited in the tender box kept in the office of the Chairman, Regulated Market Committee, Digapahandi on or before the last date of receipt of the Tender.
2. Information relating to the evaluation of bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with the bidding process.
3. Any effort by a Bidder to influence the Purchaser in the evaluation or contract award decisions may result in the rejection of its Bid.
4. Deviation to the above clause from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.
5. The Project will be awarded to the Bidder, who submits a responsive Bid, meets the minimum technical criteria for undertaking the Project and offers to enter into an Operation Agreement on the best financial terms.
6. The Technical Proposals will undergo evaluation as per the criteria and process specified and will be assigned a score. The Bidders whose technical proposal meets the minimum threshold score shall be considered for financial evaluation. The Authority reserves the right to reject the Proposals, which do not meet the technical parameters stipulated.



7. For the financial evaluation, the total cost indicated in the Financial Proposal will be considered.
8. Proposals will finally be ranked according to their financial quote. The proposal with the lowest cost will be placed in the highest rank.

The Selected Applicant shall be the Applicant having the highest score. The second highest Applicant shall be kept in reserve and may be invited at its discretion for negotiations in case

Criteria	Marks
The Bidder must have experience of at least 3 years in the installation and commissioning of solar cold rooms with thermal storage in India.	20
The presence of a technical support team in Odisha to provide after-sale support services.	20
Average turnover of the bidder for last three financial year shall be a minimum of 5 crores INR.	20
Installations of cold storage by the bidder or its OEM in the last 3 Financial years having thermal energy storage capacity of cooling backup. The system shall be commissioned a minimum of six months before the submission date of this tender.	20
Recognition for the bidder or its OEM and technology by Central Government of India Agencies	20

the first-ranked Applicant withdraws, or fails to comply with the requirements specified herein, as the case may be.

9. The Purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted specifically, bid securities, shall be promptly returned to the Bidders.

The Bidders will be evaluated against a total score of 100 by the evaluation committee. The Distribution of the score will be as follows:

Any Applicant who achieves a score of 80 and above against the total marks of 100 will be deemed to be qualified for the technical capability criteria and are eligible for financial opening of the bids.

Evaluation of Financial Proposal:

The financial proposals of all the technically qualified Bidders will be opened on the date and time mentioned by the Authority. The Financial Proposal shall essentially consist of figures for the project, as per format. The financial proposal will be evaluated as per the Least Cost Selection (LCS) method.



F. Terms of Payment

- a. 60% of contract value will be released against delivery of materials at site in good condition.
- b. 35% of the contract value will be released on satisfactory completion of the scope of work.
- c. 5% of contract value will be retained as security deposit and shall be after 12 months from date of successful commissioning of the work.



Sub-Collector, Berhampur-cum-
Chairman, RMC, Digapahandi



Firm Details

Name of Firm/ Contractor/ Supplier	
Complete Address & Telephone No./e-mail	
Name of Proprietor/ Partner/ Managing Director/ Director.	
Phone & Mobile No.	
Name and address of service centre in Odisha	
Whether the firm is a registered firm Yes/ No (attached copy of certificate)	
PAN No. (enclose the attested copy of the PAN Certificate)	
GST No. (enclose the attested copy of the GST Certificate)	
Whether the firm has enclosed the Bank Draft for tender fees	
Whether the Firm/ Agency has signed each and every page of the Tender/NIT.	
Please provide a full list of consumables.	
Whether firm and technology are recognized by Govt of India agencies.	

Authorized Signatory of the Bidder with Seal

Proforma for Performance Statement (for a period of last three years)

Name of the Firm

Order Placed by (full address of Purchaser)	Order No. and Date	Description and quantity of ordered goods	Value of order	Date of completion of Delivery	
				As per contract	Actual

Signature and seal of the Bidder

The Bidder shall also furnish the following documents in connection with their past performance.

For supplies made to public sector units in India, an Affidavit confirming that the performance statement given is correct along with the following supporting evidence.

- a. Copy of Purchase Orders.
- b. Copy of Invoices.
- c. Proof of Payment received from Purchasers.
- d. Documentary evidence (Client's certificate) in support of satisfactory completion of the contract.

Financial Capacity

(on the letterhead of the CA/ statutory auditor)

Name of Applicant Firm

The information regarding the Turnover and Net worth in the preceding financial years should be provided in the format below:

Particulars	Turnover 2020-21 (Rs. In Lakhs)	Turnover 2021-22 (Rs. In Lakhs)	Turnover 2022-23 (Rs. In Lakhs)	Average Turnover in last 3 years (Rs. In Lakhs)	Average Net worth (Rs. In Lakhs)
Average Annual Turnover and Net Worth (the "Financial Capacity") in the last 3 financial years of the Applicant firm as per certificate of CA/ Statutory Auditor					

Signature of the Authorized Signatory

Certificate of the Chartered Accountants/ Statutory Auditors Based on Audited Accounts and other relevant documents of _____

(name of the bidder), we M/s _____, Chartered Accountants/ Statutory

Auditors, certify that the above information is correct.

Signature and seal of
Chartered Accountants/Statutory Auditors

Financial Bid (to be submitted on the firm's letterhead)

Sl. No.	Brief Description of Goods and Services	Capex and services cost Including Transportation (a)	Taxes (b)	Annual Maintenance For 3 years (c)	Taxes (d)	Total Price = (a+b+c+d)

Total Tender price in Rupees _____

In words: _____

Place:

Name:

Date:

Business Address:

Signature of Bidder