

OFFICE OF THE REGULATED MARKET COMMITTEE
Junagarh, Kalahandi, (Odisha) 766014

Email: rmcjunagarh@gmail.com

Notice No: 730 /RMC

Date: 03/05/2025

NOTICE TO PARTICIPATE IN TENDER FOR DEVELOP AND MANAGE AN ENERGY EFFICIENT POST HARVEST MANAGEMENT OF FRUITS AND VEGETABLES FOR REGULATED MARKET COMMITTEE (RMC) JUNAGARH MARKET YARD, AT - JUNAGARH, DHARMAGARH, GHOTIA MARKET YARD , DISTRICT OF KALAHANDI, ODISHA.

The REGULATED MARKET COMMITTEE (RMC), Junagarh of Kalahandi District under Odisha State Agricultural Marketing Board (OSAMB), for the regulation of buying and selling of agricultural products by assisting and associating with farmers & traders to establish an efficient marketing system, where the growers may obtain reasonable and competitive price and the traders receive a fair deal in trading.

The RMC, Junagarh intends to invite bids (techno-financial Bid) or offer for construction and operation assistance for the farmer's for post harvest management of produced fruits and vegetables. The interested company will develop a management application backed by construction of a solar based cold storage which will have features to connect farmers with market for 5 years. The features will also have automation and monitoring systems for the cold storage by the district and state officers directly information of the operation.

The Tender paper containing detailed terms, conditions and other statutory requirements, that can be downloaded from the district website <https://Kalahandi.nic.in/>. Tender papers completed in all respect along with all required documents should reach to the Secretary, Regulated Market Committee, Junagarh, Odisha, 766014 on or before 13.05.2025 up to 5.00 PM by registered / speed post only. The bids shall be opened on 14.05.2025 at 11.00 AM by the Sub-collector, Dharmagarh-cum-chairman RMC Junagarh, in the office of RMC, Junagarh.

The undersigned reserves the right to reject any or all the tenders without assigning any reason thereof.



Sub-Collector, Dharmagarh-cum-
Chairman, R.M.C. Junagarh

Memo No: 731

Dated- 03/05/2025

Copy to the DeGM, Kalahandi, Bhawanipatna / District Informatic Officer (NIC), Kalahandi, Bhawanipatna, for information with a request to publish the tender notice in the Kalahandi District Website from 03.05.2025 to 13.05.2025 for wide publication.



Sub-Collector, Dharmagarh-cum-
Chairman, R.M.C. Junagarh

**OFFICE OF THE JUNAGARH REGULATED MARKET COMMITTEE,
JUNAGARH (KALAHANDI) PIN: 766014. ODISHA,
E-MAIL: rmcjunagarh@gmail.com**

Work Description: DEVELOP AN ENERGY EFFICIENT POST HARVEST MANAGEMENT OF FRUITS AND VEGETABLES AT JUNAGARH, DHARMAGARH, GHOTIA MARKETS FOR REGULATED MARKET COMMITTEE (RMC), JUNAGARH, DISTRICT OF KALAHANDI, ODISHA

Tender Fee (Inclusive of GST) (Rs.) : 10,000 INR. A non-refundable tender fee in the form of Demand Draft drawn in favor of "SECRETARY, REGULATED MARKET COMMITTEE JUNAGARH payable at Junagarh.

Performance Bank Guarantees: Performance Bank Guarantee bidder will be 5% of the value normally prescribed for 3 year after commissioning 1.5% first 2 years and 2% in last year.

Site visit (If any): Bidder may visit the site with prior intimation before bidding.

Last date and time of receipt of Bids : 13.05.2025, up to 17:00 Hours By registered / speed post only.

Date & Time of opening technical bids & EMD : 14.05.2025, 11:00 Hours onwards in the office of RMC, Junagarh in the presence of the bidders or authorized representatives.

Qualification Criteria for Bidders:

- The scope of work for the construction will be submitted with its time schedule to finish the project and also a write up for approaching the project implementation process.
- The bidder should have average annual turnover of Rs. 1.5 Crores in any of the last 3 financial years from (FY 22-23, FY 23-24 & FY 24-25) in electrical or cold storage projects. CA Audited balance sheet and profit & loss account statements to be submitted.
- The prospective Bidder(s) should be a registered Sole Proprietor Firm / Partnership Firm/ Company and should possess all Statutory Compliance. Bidder must submit the copy of all these Registration certificates like Valid PAN, ESI registration, EPF registration, GSTN Registration etc.
- OEM Registered in India of PUF / cooling machines / electrical / PV System / Electronics or their sole authorized distributor / channel partner or PV System Integrators are eligible to bid. Authorization letter in the prescribed format from Original Equipment Manufacturer (OEM) in favor of authorized distributor / channel partner to bid / conclude the order against this tender, must be provided with technical bid. PV System integrators shall also be required to submit the MAF from OEM.
- Bidder should have experience of successful erection, testing and commissioning of solar cold storage project in single contract during last 3 years as on date of opening of bid. Copy of these Purchase orders along with completion certificates must be attached with technical bid.
- The bidder must have HT license of any state, however after getting awarded the bidder should have to submit the Odisha HT license.

- Bidder should not be blacklisted by any Govt. Organization / Utility. Bidder to give the self-certification for it.
- Joint Ventures (JV) are not allowed.
- The RMC shall not be responsible for any delay in postal services.
- It is responsibility of manufacturer / EPC / Construction Company for ensuring timely delivery the project.
- The contactor will maintain an office to closely coordinate and work with RMC to maintain the solar cold storage and assist in operational. A automation system and mobile app will be developed by the EPC / construction company after T&C.
- The bid should contain two parts one for Technical Bid and second for Financial Bid as provided.

Reverse Auctions

RMC reserves the right to conduct the reverse auction for the project being asked for in the tender and reserves the rights with RMC. The terms and conditions for such reverse auction events shall be as per the tender. The bidders along with the tender document shall mandatorily submit a duly signed copy of the Acceptance Form attached as Annexure VI as a token of acceptance for the same.

The bidding will be for 10 MT x 3 numbers solar GI cold storage under RMC, Junagarh.

Mandatory documents required along with the Bid

- Tender Fee
- Requisite Documents for compliance to Qualification Criteria
- Drawing, Type Test details OEM letter for cold storage, solar system, electrical automation, multiple sources of energy from grid, Solar and automation products.
- Structure stability report and civil up gradations
- Detail for cooling and solar system integration
- Bidder will follow the design and plan of the RMC
- Solar generation simulation design and detail
- Duly signed and stamped tender document.
- Proper authorization letters from OEM
- Power of Attorney to sign the tender on the behalf of bidder
- A certified copy should be submitted by the bidder regarding not blacklisted by any govt. offices
- Declaration for 3 years assistance and system guarantee signed by directors.

Description of Goods and Services	
Configuration	<ul style="list-style-type: none"> Outdoor configuration on 34' x 14' platform provided by the client. Internal volume of 1500 CFT. Walls & ceiling of 100mm PUF with 40kg/m³, 0.40mmPPGI. Flooring of 80mm PUF, 12mm marineply & 0.9mm Al chequered or permanent concrete flooring . Door with 6ftx 3ft opening,100mm thick PUF, PVC curtain.
Number of chambers	Chamber with separate doors and temperature set point for storing multi-commodities.
Temperature range	Between 2 °C to 12°C at a set point temperature should maintain at all time without fail day/ night all seasons / weather conditions.
Solar PV system	14kWp or similar size mono crystalline
Compressor	Two machines of 100% (1 working + 1 standby) cooling capacity 4.0TR or similar make: Danfoss / Daikin/ Frascold/Bitzer/ similar capacity of reputed make approved by engineering team . -9 °C evaporating @ 40 °C ambient temperature is required.
Refrigerant	Zero ozone-depleting type./eco-friendly.
Condenser	Copper tube & aluminum fin.
Evaporator	Copper tube & aluminum fin
Thermal storage & Battery Storage	<p>Minimum 48V 200 Ah,10%discharge rating, 5 years OEM warranty.</p> <p>Make: Amaron/Okaya / Exide./similar capacity of reputed make</p> <p>If the overall auxiliary load is more than the discharge rating of the battery, the battery size needs to be accordingly increased.</p>
Axial fans	fans for condenser and evaporator.
Solar Structure	Hot dip galvanized with 11°- 14° tilt.
Cold room roofing	Corrugated sheet for water proofing / Water treatment solution
Alternate power	1phase, 230Vac, 5kVA, automatic changeover.
Insurance	Insurance of fire and theft policy for the equipments for will be covered for 3 years on the name of the end user.

General Information	10MT x 3 Nos Solar Cold Storage for Multi Product (1 Chambers)
Base Structure Details	The solar cold storage will have solar system on rooftop with cold storage rooms inside. The structure should sustain maximum wind speed of the cyclonic zone, 220km/h in costal zone too.
Ambient temp (in °C)	40°C, Storage temperature range 2 °C to 12 °C
Product Stored	Flowers / Fruits / Vegetables etc * details will very with more options, Product incoming temperature @ 15 °C - 30 °C
Door opening /day	Should be 2 times max , 5 minutes of each (10 minutes max)
Product incoming rate	15-45%, Working Hours & Number of persons 10 min Max / two persons
Cold Storage (10 MT staging cold room)	
Dimensions (L x W x H)	Customized with (17' x 10' x 9')

Temp (in °C)	Storage temperature range 2 °C to 8 °C
Chamber	3 Nos @ Junagarh, Dharmagarh, Ghotia Markets
Wall & ceiling insulation	100 mm Polyurethane Foam (PUF) + PPGI Cladding with density of 40+/-2 kg/m ³ Make: Blue star/ Rinac / Kingspan Jindal / Metecno / lloyd or client's approved vendors only insulation only
Door type	6.5 feet height x 3.5 feet width. 100 mm PUF of 40+/-2 kg/m ³ , 0.5mm PPGI sheets on both sides , Safety inside door lock
Floor insulation	80 mm Polyurethane Foam with density of 40+/-2 kg/m ³ + GI / Tiles Make: Blue star/ Rinac / Kingspan Jindal / Metecno / lloyd or client's approved vendors only insulation only
Door curtain	PVC curtain before the door
Lights	3/4 Nos of internal LED Lights
Refrigeration System	<ul style="list-style-type: none"> • For cooling 2 x 100% efficiency calculation of refrigeration system with calculative energy efficiency alternative for operational failure condition for individual rooms • Assistance locally available within 100km of installation for long term operational assistance. Easy to repair after installation. • Multiple units of multiple temps or different size with respect to National Horticulture Board Equivalent , R22 / R404A / Eco friendly gases, • The temperature controller will be digital displayed, simple operation and easy to handle by local farmers / personal. Compressor controller with separate set points. compressor cut off and temperature controls with respect to set temperature, • Put down time (5Hrs). Additional humidifier if necessary <p>similar make: Danfoss / Daikin/ Frascold/Bitzer/ similar capacity of reputed make approved by engineering team</p>

Ante Room	
Dimensions (L x W x H)	Modification will be approved as per site with clients approval. Anteroom may be used as a cooling room incase of need.
Wall & ceiling insulation	100/80 mm Polyurethane Foam (PUF) + PPGI Cladding with density of 40+/-2 kg/m ³ Make: Blue star/ Rinac / Kingspan Jindal / lloyd insulation only
Door type	6.5 feet height x 3.5 feet width. 100/80 mm PUF of 40+/-2 kg/m ³ , 0.5mm PPGI sheets on both sides , Safety inside door lock
Floor insulation	80 mm Polyurethane Foam with density of 40+/-2 kg/m ³ + GI / Tiles
Door curtain & Lights	PVC curtain before the door & 1 Nos of internal LED Lights
Solar Structure	<p>Incase there will be any support for rooftop structure needed then the bidder will submit that with tender documents. The bidder will submit and structure analysis report along with the offer for building with tender documents. The frames and leg assemble of the mounting structure is made of MS hot dip galvanized of steel sections Tubes. Galvanizing shall be checked and tested in accordance with IS: 2633. The structure is designed in such a way that it will occupy minimum space without sacrificing the output from SPV panels at the same time it will withstand severe wind speed up to maximum 220 kmph. The report will be submitted along with the tender. The solar arrangement drawings of all individual rooftops shall be submitted with the tender for all individual builds.</p> <p>Raw Material: Tata Steel / JSW Steel / SAIL / VISA Steel / RINL / Essar Steel</p>

Electrical & Solar System	<ul style="list-style-type: none"> • Submit the design and stability calculation of solar system for the CS along with energy efficiency details. Solar System should be designed to achieve the cooling of average 18.6 million KJoule / month requirement. Solar system may be DC to DC for better efficiency. Bidder should consider a multi energy source of battery system IEC 60086 or similar ICEDG IEC. 88528-11 standard atleast beyond 10 hours of energy backup. • 100% operational design with avoiding all possible risk of shutdown during any day of the year. • Panel level monitoring controlling incase of power optimizer system. • Take all possible Govt approvals for the solar cold storages system including Odisha State HT license . • Provide logical control incase grid failure in stormy days. • All possible options for power supply at any point of time for cooling system. • Consistence Energy Supply arrangements from multiple sources <p>Makes: Waaree / Vikram / Adani / Renewsys/ Saatvik / Emmvee Inverter Makes: Havells / Waaree/ Solaredge / Delta / GoodWe /ABB / TMEIC/ Fronius / Huawei / AXPL any reputed make approved by client's engineering team Any electrical system : Schneider / ABB / Eaton / Hager / Cable : Polycab / Havells</p>
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Space Management	The cold storage should have a space management installation to accommodate maximum possible commodity and should not violate the cooling conditions.
Connecting farmers with market & Operation Management	<p>"Implement of automation & AI for stored food details quantity, quality and details of information for selling and space management. Connecting farmers and also collecting future harvesting data in application. Mobile App to connect the farmers directly with the market and to access information of food commodity in solar cold storage. Farmer's harvest (food) will be stored inside the cold storage and will be displayed online in this app, which can be access by multiple users like traders / food processing units/ exporters etc.</p> <p>Links to the markets in state and national level to give the information about the capacity utilization and idealness. Link with district state level admin for better communication With internal remote monitoring the temperature and other factors will be monitored.</p>

TERMS OF PAYMENT:

Payments will be released in the following manner:

- 80% (Eighty Percent) of the contract value against delivery of the materials at site in good condition.
- 15% (Fifteen Percent) of the contract value on satisfactory completion of the works.
- 5% (Five Percent) of the contract value 1.5% will be released each year in 1st two years and remaining shall be released after successfully months of operation.
- Statutory Income Tax, GST etc. at rates applicable shall be made from the bills.

COMPLETION PERIOD:

The entire work is to be completed within 60days without failing excluding electrical & netmeter supply.

GUARANTEE:

The Contractor will provide guarantee on the materials supplied and the workmanship for the works executed for a period of 36 months from the date of successful commissioning of the plant with successful operation.

RESPONSIBILITIES AT WORK SITE:

The Contractor has to comply with all statutory requirements of the Central/ State Govts. with respect to the workmen/ labourers to be engaged for the entire works, including their safety and make its own arrangements for providing them with the necessary facilities and security at its own responsibility and cost during execution of the works.

DOCUMENTS TO BE FURNISHED:

Details of documents as per the tender clause.

The hard copy proposals/ bids will be addressed to Secretary, RMC JUNAGARH, AT/PO: JUNAGARH, Kalahandi, Odisha 766014. The complete proposal/bid should reach on or before 5.00 PM on 13 / 05 / 2025 by registered / speed POST ONLY. For further details please contact the undersigned.



Sub-Collector, Dharmagarh-cum-
Chairman, R.M.C. Junagarh



Commercial Bidding Doc:

SL NO	For 10 MT x 3 Solar Cold Storage	In INR
1	Site development	
2	Prefabricated Shed / Civil Structure	
3	Cold Room Chambers + Space Management	
5	Solar Package +Surge Protection, Electrification, Stabilizers Battery / Gen Set	
6	Govt Approvals' & T&C	
7	Automation and operation management assistance connecting & managing Farmer's	
	Insurance	
	GST	
	Operational EXP for 3 Years	
	Estimated Project Cost	
	Rate quoted in _____% Less or excess (strikeout the option in between)	_____ INR

This is to confirm that in case of award of the contract to us, we are agreeable to execute the works as per the Specifications / Terms & Conditions in this " SUPPLY, ERECTION, TESTING & COMMISSIONING OF REFRIGERATION SYSTEM WITH COLD CHAMBERS, MULTISOURCE ENERGY INTEGRATED WITH SOLAR AND ASSIST IN OPERATION FOR 3 YEARS BY MANAGING COLD STORAGE BY IMPLEMENTING AUTOMATION AND AI AT JUNAGARH, DHARMAGARH, GHOTIA SUB -MARKET YARD, JUNAGARH, ODISHA.

Our lump-sum rates on works contract basis inclusive of works-contract GST and all other taxes and levies, transport/loading/unloading charges etc. are quoted as under. This tender will remain valid for four months from its date of submission.

(1). Rs _____in words)

for all Refrigeration, electrical, automation, AI, solar and operation assistance etc.

Ms.

(Name & Address of the Finn)

(Authorised Signature with Date & Seal of the of the Firm)

A. GENERAL INFORMATION OF THE BIDDER

Name of Firm	
Country & Year of Incorporation	
Address of corporate head quarters and its branch office(s) in Odisha	
Details of individual(s) who will serve as the point of contact	(a) Name: (b) Designation: (c) Company: (d) Address: (e) Telephone Number: (f) Fax Number: (g) E-Mail Address:
Enclosures	1. Details As per tender

B. FORMAT FOR ESTABLISHING THE TECHNICAL EXPERIENCE OF THE BIDDER

#	Description	Detail
1	Project Name	
2	Project Location	
3	Project Start & End Date	
4	Cost of the Project (in INR)	
4	Project Description	
5	Project Drawing Samples	

The above table should be submitted for each of the showcased project along with relevant supporting documents (like Work Order/ Contract Agreement/ performance certificate from relevant authorities)

Authorized signatory

BILL OF QUANTITY AND PRICE ESTIMATE					
FOR SUPPLY, INSTALLATION AND COMMISSIONING OF MULTIPURPOSE SOLAR COLD STORAGE					
ATJUNAGARH, DHARMAGARH, GHOTIA MARKET YARDS, DIST.: KALAHANDI, ODISHA.					
10 MT Solar Cold Storage					
17' x 10' x 9'					
1	Chamber - 1: COLD ROOM				
3	Anteroom	With Approval from Client engineering team			
4	Electrical and solar system	Customized Solar integration as per RFP			
5	PEB & Addition to Civil Structure	A PEB structure and addition to the rooftop structure to sustain the cyclone stability of the zone as per RFP.			
6	Post Installation Management	Automation in Operation support and marketing support as per RFP			
BILL OF QUANTITY					
SL NO	ITEM DETAILS	Quantity	Unit	Rate unit	Amount
COLD ROOM					
1	Refrigeration unit for cold rooms 12000 BTU/Hr or with design approval.	As per design RFQ	Nos		
2	100mm thk Wall Panel PP/PP	297	sqft		
3	100mm thk Ceiling Panel PP/PP	156	sqft		
4	100mm single layer PUF Slab	156	sqft		
5	100mm thk Door 2000mm x 900mm	1	no		
6	Internal Flashing	120	Rft		
7	External Flashing	120	Rft		
8	U Profile	123	Rft		
9	Floor Finish RCC with 8mm TMT 250x250 reinforcement, M-20 grade, Kota Stone top.	156	sqft		
10	CFL Lighting	3	Nos		
11	Digital temperature indicator	1	no		
12	Suspension, T channel and silicon sealant	1	lot		
13	Other misc Accessories	1	lot		
14	External support outside for panel drift incase of inside pressure due to food bagasse load on walls. with drawing	1	lot		
Anteroom					
1	100mm thk Wall Panel PP/PP	53	sqft WRT Site		
2	100mm thk Ceiling Panel PP/PP	31	sqm		
3	Floor Finish RCC with 8mm TMT 250x250 reinforcement, M-20 grade, Kota Stone top.	31	sqm		
4	100mm thk Door 2000mm x 900mm	1	no		
5	Internal Flashing	12	Rft		
6	External Raising	12	Rft		
7	U Profile	12	Rft		
8	CFL Lighting	1	Nos		
9	Suspension, T channel and silicon sealant	1	no		

10	Other misc Accessories	1	lot		
11	External support outside for panel drift incase of inside pressure due to food bagasse load on walls. with drawing	1	lot		
	Electrical and solar system				
1	PV Module	25 -35	Nos.		
2	Array Harness Cable (Solar Cable / DC Cable)	67	Mtrs.		
3	DWC Conduit	33	Mtrs		
4	Perforated type Cable Tray with Cover	33	Mtrs.		
5	MC-4 Connectors	42	Pairs		
6	Solar Inverters	1	Nos.		
7	Solar Inverters incase optimizer	12	Nos.		
8	DCDB	1	Nos.		
9	Angle/ Frame for Inverter & DCDB fixing	2	Nos.		
10	Cable : DCDB to inverter	13	mtr		
11	Cable pipe & warning tapes	13	mtr		
12	Cable Tie	1	Lot		
13	Module Mounting Structure	1	Lot		
14	STAAD report to substantiate the material used for given wind speed	1	Lot		
15	Hardware (For rooftop / ground Mounting)	1	Lot		
16	Earthing for Solar Plant (DC Modules & DCDB)	1	No		
17	Inverter Protective Earthing Accessories	1	No		
18	Earthing Electrode with Accessories	2	Nos.		
19	Earthing Pits (Excavation & Back filling as required)	10	Mtrs		
20	ESE type LA with Base Plate and Mounting Stand	1	Nos.		
21	Excavation hole for pole & filling	10	Kgs		
22	Mounting pole	1	Nos		
23	Auxiliary arrangements	1	Nos		
24	ACDB	1-2.	Nos		
25	AC Cable (Inverter to ACDB / LT Panels or both)	1-2.	Nos		
26	LT Power Cable (AC) (For Looping between ACDBs to JB / Main LT panel)	1-2.	Nos.		
27	Cable, ACDB / LT Panel	33	Mtrs		
28	Angle/Channel for ACDB fixing (if ACDB)	33	Mtrs		
29	Transformers (11 KV/440VONAN)	NA			
30	LT power cable from ACDB / LT Panel to Transformer (11KV/400V)/Bus duct	10	Mtrs		
31	LT control cable from ACDB / LT Panel BKR to Transformer (11KV/400V)/Bus duct	33	Mtrs.		
32	Lightning arrester	1	Lot		
33	Illumination system(lighting exhaust fan+JB+conduit etc..)	2	No		
34	DCDB + incase Battery charger		kWh		
35	Cable pipe	1	Nos.		
36	small tile / warning tape	1	Nos.		
37	Warning tapes	1	NO		
38	Gland (Single Compression) suitable for 4C x 35 sqmm,CU,XLPE,Armoured Cable	1-2.	Nos.		

39	Lugs (Copper) suitable for 4C x 35 sqmm,CU,XLPE,Armoured Cable	10	Nos.		
40	Gland (Double Compression) suitable for 3.5C x 185 sqmm,Al,XLPE,Armoured Cable	1-2.	Nos.		
41	Lugs (Aluminum) suitable for 3.5C x 185 sqmm,Al,XLPE,Armoured Cable	10	Nos.		
42	Lugs (Cu) suitable for 16 sqmm,Cu,PVC,Unarmoured Cable	10	Nos.		
43	Ferrules	25	Nos.		
44	Cable Tags	33	Nos.		
45	Fire Fighting	1	Nos		
46	Cleaning Arrangement	50	Mtrs		
47	Other Electrical and Mechanical accessories	1	Lot		
48	Nut bolts/Screws/Anchor bolts (HDG)	1	Lot		
49	Cable Tie	1	Lot		
50	Insulation Tape	1	Lot		
51	Route marker & Earth Pit marker	1	Lot		
52	Display boards,	1	Lot		
53	danger boards	1	Lot		
54	Walkway (HDG / FRP) including Fasteners	1	Lot		
55	Design & Engineering	1	Lot		
56	Installation, Testing and Commissioning	1	Lot		
57	Zero Export Device	1	Nos		
60	NOC from GEDCOL/ OPTCL	1	Nos		
61	Net Metering (incase GPRS/GSM Modem with RS485 with connecting cable)	1	Nos		
62	Insurance 3 years	1	Nos		
63	Operation and Maintenance 3 years	1	Nos		
	PEB Structure				
1	EARTH WORK & FILLING upto 1.20 Meter depth below average ground level.	1	Set		
2	Back filling sides	1	Set		
3	150 mm thick in foundation of any depth including for trenches, pits and tunnels, sides of foundation, under floor etc	1	Set		
4		1	Set		
5	Cement concrete of 1:3:6 using 20 mm and down size coarse graded hard stone aggregate for leveling course in foundation at any depth including for trenches, pits	1	Set		
6	MS bars conforming to IS-432/ High yield strength deformed bars conforming to IS-1786 of Fe 410 Grade TMT bars of all dia for reinforcement	1	Set		
7	Supplying and fixing gate	1	Set		

8	STRUCTURAL STEEL WORK Pre-Engineered structural steel work with built up sections from plates or/and bar stock having flanges and web joined on both sides of the web by continuous welding process. The plate or bar stock shall have minimum yield strength of 345 MPa, confirming to ASTM A 572 grade 50 and/ or confirming to IS : 8500/IS:2062.	1	Set		
9	Stanchions, lattice girders	1	Set		
10	Roof Truss, monitor roof, etc.	1	Set		
11	Purlins (245 Mpa) Monitor Runners, cladding, runners and louvre runners – 'Z' / 'Y' / Multi beam sections of depth upto 230 mm and thickness upto 2.5 mm etc., complete, including shot blasting to Sa 2.5 standards and 2 coats of Epoxy primer with dry film thickness 30 microns	1	Set		
12	Supply and installation	1	Set		
13	Match roofing / cladding sheets and solar support structure	1	Set		
14	4mm dia galvanised steel wire between the weldmesh frame, fixed with self drilling screw/welded	1	Set		
15		1	Set		
30	Elevated concrete floor for truck unloading	1	Set		
	Water Tank & Humidifier				
1	500 ltr watert ank	1	Nos		
2	Pipe fittings	1	Nos		
3	Humidifier	1	Lot		
	Addition to Civil Structure				
1	Modifications in civil infra without changing its strength.	1	Nos		
2	Add structure to with stand cyclonic pressure	1	Nos		
3	Display boards	1	Lot		
4	Danger boards	1	Lot		
5	Walkway (HDG / FRP) including Fasteners	1	Lot		
6	Installation, Testing and Commissioning	1	Lot		
	Post Installation Management				
1	Automation and AI in operation of cold storage assistance for 5 years AS per RFP	1	Nos		
2	Add farmers to market in post management	1	Nos		
3	Solar cold storage details daily info to RMC / district / state admins	1	Nos		
4	Add food process and consumer markets with AI	1	Nos		
5	Post installation management assistance for 5 years	1	Nos		
				TOTAL	

NOTES:

Included civil works except extranal floor finish.

Included electrical arrangement, panel, cables..

Included front side loading/ unloading area.

Excludes all other works not mentioned above.

All prices are in rupees without GST, taxes and duties.

Technically sanctioned for Rs. /-



Sub-Collector, Dharmagarh-cum-
Chairman, R.M.C. Junagarh

