

Tender Document

Sugi Producer Company Ltd./
Dahigaon Sai Mauli Farmers Producer Company Ltd./ Mulamai Agro Producer Company Ltd./
Sai Pravara Shetkari producer Company Ltd./
Virtual Agrofarm Producer Company Ltd./
Ajinkya Agro Producer Company Ltd./
Unity Orgo Farm Producer Company Ltd.

Name of the work: **Construction of Onion Storage and Marketing Infrastructure at Seven locations in Maharashtra** (Roofing & Chawls).

Sr. No.	Description	Target Information
1	Reference No: Document of Tender	File No. Unity orgo/ Dahigaon Saimauli/Virtual Agrofarm/Sugi/Sai pravara/Mulamai/Ajinkya/PPP IAD/tender /2020-21/3
2	Purpose	Construction of Onion Storage and Marketing Infrastructure at Seven locations in Maharashtra – Self supported Roofing of the onion Sheds and fabrication of onion storage boxes (For details please visit at www.mahaonion.org)
3	Locations	Chapter 4
4	Date of issue/sale of Tender Document	From 29.11.20 to 7.12.20 (up to 11:00 am.) at the location of respective FPC's given in the chapter 4
5	Pre-bid meeting	Through online mode on 6/12/2020 at 3.00 pm
6	Last date & submission of bids time	07.12.20 up to 1100 hrs
7	Date and time of opening of technical bid (Part I)	07.12.20 at 1100 hrs or if any change occurs, it will be conveyed to respective participants
8	Opening of Financial Bids (Part-II)	07.12.20 at 1500 hrs or if any change occurs, it will be conveyed to respective participants
9	Earnest Money Deposit (EMD) in the form of a demand draft/banker's cheque.	Rs. 25,000 (Rs. Twenty five Thousand Only) through Demand Draft/ NEFT/RTGS/cheque drawn in favor of Unity orgo/ Dahigaon Saimauli/Virtual Agrofarm/Sugi/Sai pravara/Mulamai/Ajinkya Agro Farmers Producer Co. Ltd (Refer chapter 4) on any nationalized/ scheduled commercial bank payable at respective Locations (Refer chapter no 4) be submit with technical bid.
10	Cost of technical specification of quotation/tender document	Rs.1000/ (Rupees One Thousand only) (Non- refundable) through a cash
11	Contact Person for queries	Refer Chapter 4
12	Address for Bid Submission	Refer chapter 4
13	Validity	The bids submitted shall remain valid for a period of 45 days from the date of opening the technical bid.
14		

Sugi Producer Company Ltd./
Dahigaon Sai Mauli Farmers Producer Company Limited/
Mulamai Agro Producer Company Limited/
Sai Pravara Shetkari producer Company Limited/
Virtual Agrofarm Producer Company Limited/
Ajinkya Agro Producer Company Limited/
Unity Orgo Farm Producer Company Limited.

TENDER DOCUMENT for

Name of the work: Construction of Onion Storage and Marketing Infrastructure at Seven locations in Maharashtra.

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1. Tender NOTICE

Virtual Agrofarm Producer Company Ltd

Narayangaon Tal: Junner, Dist: Pune

Tenders are invited under the PPP-IAD project of Onion Storage and Marketing Infrastructure for i) Fixation of self-supported roofing (2218 m²), ii) Fabrication of Onion Storage Boxes (1000 MT capacity). Commercial Tenders are invited through electronic mode by 11.00am on or before 07/12/2020 with following documents a) Financial Bid specifying taxes with acceptance of T&C b) Company Profile c) Pan card & ITR of last 3 yrs. d) Time frame for work completion e) Firms can give separate quotes. Tender document is available at www.mahaonion.org

Contact person: Shri. Santosh Tamboli, Mob: 9359176586



Sun, 29 November 2020

<https://epaper.eprabhat.net/c/>



Mulamai Agro Producer Company Ltd

A/p: - Warwandi, Tal-Rahuri, Dist- Ahmednagar

Tenders are invited under the PPP-IAD project of Onion Storage and Marketing Infrastructure for i) Fixation of self-supported roofing (2185 m²), ii) Fabrication of Onion Storage Boxes (1000 MT capacity). Commercial Tenders are invited through electronic mode by 11.00 am on or before 07/12/2020 with following documents a) Financial Bid specifying taxes with acceptance of T&C b) Company Profile c) Pan card & ITR of last 3 yrs. d) Time frame for work completion e) Firms can give separate quotes. Tender document is available at www.mahaonion.org

Contact person: Shri. Popat More, Mob: 7057355533



Sun, 29 November 2020

<https://epaper.eprabhat.net/c/>



Sai Pravara Farmers Producer Company Ltd

A/p: - Chincholi, Tal-Rahuri, Dist- Ahmednagar

Tenders are invited under the PPP-IAD project of Onion Storage and Marketing Infrastructure for i) Fixation of self-supported roofing (2218 m²), ii) Fabrication of Onion Storage Boxes (1000 MT capacity). Commercial Tenders are invited through electronic mode by 11.00 am on or before 07/12/2020 with following documents a) Financial Bid specifying taxes with acceptance of T&C b) Company Profile c) Pan card & ITR of last 3 yrs. d) Time frame for work completion e) Firms can give separate quotes. Tender document is available at www.mahaonion.org

Contact person: Mr. Sambhaji Nannor, Mob: 7709101180



Sun, 29 November 2020

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Unity Orgo Farmer Producer Company Ltd.

A/p: - Loni Vyaankanath, Shringonda, Ahmednagar

Tenders are invited under the PPP-IAD project of Onion Storage and Marketing Infrastructure for i) Fixation of self-supported roofing (2218 m²), ii) Fabrication of Onion Storage Boxes (1000 MT capacity). Commercial Tenders are invited through electronic mode by 11.00 am on or before 07/12/2020 with following documents a) Financial Bid specifying taxes with acceptance of T&C b) Company Profile c) Pan card & ITR of last 3 yrs. d) Time frame for work completion e) Firms can give separate quotes. Tender document is available at www.mahaonion.org

Contact person: Mr. Purrushottam Lagad, Mob: 9850941608



Sun, 29 November 2020

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Dahigaon Sai Mauli Farmers Producer Company Ltd

A/p: Dahigaon Bolka Tal- Kopargaon, Ahmednagar

Tenders are invited under the PPP-IAD project of Onion Storage and Marketing Infrastructure for i) Fixation of self-supported roofing (2218 m²), ii) Fabrication of Onion Storage Boxes (1000 MT capacity). Commercial Tenders are invited through electronic mode by 11.00 am on or before 07/12/2020 with following documents a) Financial Bid specifying taxes with acceptance of T&C b) Company Profile c) Pan card & ITR of last 3 yrs. d) Time frame for work completion e) Firms can give separate quotes. Tender document is available at www.mahaonion.org

Contact person: Mr. Babasaheb Landge, Mob: 8788138167



Sun, 29 November 2020

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Sugi Producer Company Ltd.

A/p: Antapur, Tal: satana, Dist: Nashik

Tenders are invited under the PPP-IAD project of Onion Storage and Marketing Infrastructure for i) Fixation of self-supported roofing (2218 m²), ii) Fabrication of Onion Storage Boxes (1000 MT capacity). Commercial Tenders are invited through electronic mode by 11.00 am on or before 07/12/2020 with following documents a) Financial Bid specifying taxes with acceptance of T&C b) Company Profile c) Pan card & ITR of last 3 yrs. d) Time frame for work completion e) Firms can give separate quotes. Tender document is available at www.mahaonion.org

Contact person: Mr. Aniket Sonawane, Mob: 9823621114



Sun, 29 November 2020

<https://epaper.eprabhat.net/c/>



Ajinkya Agro Producer Company Ltd.

A/p: Kawadewadi, Tal: Vashi, Dist: Osmanabad

Tenders are invited under the PPP-IAD project of Onion Storage and Marketing Infrastructure for i) Fixation of self-supported roofing (2218 m²), ii) Fabrication of Onion Storage Boxes (1000 MT capacity). Commercial Tenders are invited through electronic mode by 11.00 am on or before 07/12/2020 with following documents a) Financial Bid specifying taxes with acceptance of T&C b) Company Profile c) Pan card & ITR of last 3 yrs. d) Time frame for work completion e) Firms can give separate quotes. Tender document is available at www.mahaonion.org

Contact person: Mr. Bhagvat Kawade, Mob: 9730635555



Sun, 29 November 2020

<https://epaper.eprabhat.net/c/>



2. Forwarding Letter

From:.....
.....
.....
Email:..... **Mobile No.:**.....

To,
The Chief Executive Officer/ Director,
Unity orgo Farmers/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara
Shetkari/Mulamai Agro/Ajinkya Agro PRODUCER COMPANY LIMITED
Address:
..... (Refer chapter 4)

Subject: - Construction of Onion Storage and Marketing infrastructures at Seven locations in Maharashtra.

Dear Sir,

With reference to the above we have a pleasure to submit our offer. The site has been inspected by us and we are fully aware about all the infrastructure and the rates have been worked out after looking into the site conditions in detail and other clauses, indicated therein. The demand draft/cheque amounting to Rs.25,000/- (Rupees Twenty Five Thousand only) drawn in favour of **Unity orgo Farmers/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro** Farmer Producer Company, payable at respective locations is enclosed in the separate envelop accompanied to tender. The demand draft/RTGS/NEFT/cheque bearing No. _____ Dated of the _____ Bank and **PAN Card no.** is _____. The list of works completed by us is enclosed herewith along with the details such as the period of construction, estimated and actual cost, certified by the respective employer.

We are aware that the earnest money shall be forfeited in case we refuse to execute the said work, if assigned. We shall execute an agreement within 3 days after the receipt of the work order at our cost.

We are also aware that our offer shall be rejected in case we do not enclose the Demand Draft for the earnest money. We assure to complete the work within the stipulated period.

Thanking you,

(Signature & seal of Contractor)

Enclose: Documents as above.

3. TERMS AND CONDITIONS

1. **Earnest money** will be **Rs. 25,000/- only**. The tender will not be accepted in absence of earnest money in form of demand draft/RTGS/NEFT/cheque favoring **Unity orgo Farmers/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro FPC** payable at respective locations of the FPC (refer chapter 4).
2. Qualification of Contractor: -
 - a. The Construction firm/company/Contractor should have experience of working on same or related project of the intended work herein.
 - b. The Contractor should have executed works having minimum value of Rs.50 Lakhs during last 3 financial years separately (If beading for single component minimum value of Rs. 30 Lakh will be considered).
3. Instruction to bidders: The tender should be submitted in two parts:
 - a. Part- I: Technical Proposal
 - b. Part- II: Financial Proposal
 - c. Each of the above mentioned two parts shall be sealed in separate envelopes duly superscripting part-I (Technical Proposal) & part-II (Financial Proposal) on respective envelopes. These two envelopes shall be put under one sealed cover duly superscripting name of work. The bidders should put their signature on each & every page of tender document.
4. The Managing Board of **Unity orgo Farmers/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro FPC** reserves the right to reject any or all without assigning any reason thereof.
5. The period of completion will be 20 days from the date of issue of work order.
6. Total security deposit will be 1 % of total cost of the work and should be deposit to **Unity orgo Farmers/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro FPCs** within the 2 days after signing the agreement.

7. The 0.5 % security deposit will be refunded after six months of actual completion of works.
8. Rates are inclusive of materials, transport, labor T&P fabrication/erection and all other arrangements for completion of works including water and electricity. However, the GST would be extra, and bidder should mention it while submitting the bid.
9. The earnest money of successful tenders clubbed together with security money will be refunded after Six months of completion of works.
10. The general and detailed specifications should be strictly followed by the contractor.
11. No escalation in rates will be allowed under any circumstances.
12. **Defect liability period** will be **6 months** from the date of completion.
13. Liquidated damage will be 5,000/- per day for the excess period taken for completion of works than the specified in the contract, limited to 1% of agreed quotation/tendered cost.
14. The competent authority may grant extension of time for valid reasons if the contractor applies for same work before expiry of contractual period.
15. If the contractor fails to complete or shows unsatisfactory progress, the debatable agency in form of daily labor or another contractor may be employed by the owner by giving proper notice to original contractor and the whole cost which is usually higher is debited or will be charged to contractor.
16. The RA bill will be made only after inspection and satisfactory work report by the empaneled technical authority as per the progress of the work.
17. The contract can be terminated by the competent authority in case of default and bankruptcy of construction firm/company/contractor. If the construction firm/company/contractor does not fulfil terms and conditions of contract, as if he leaves the work unfinished and he does not follow rules and instruction, etc. the contract may be terminated, and all of his security will be forfeited. For termination of contract due notice will be served to construction firm/company/contractor.
18. All safety measures for the labors working at the site must be provided as per the provision of labor law.

19. Construction firm/company/contractor will carry on the construction work as per the drawing provided to him. Any alteration in the design while construction will not be accepted unless he has sought the prior approval of the employer. However, employer has every right to change the design at any stage.
20. Construction firm/company/contractor should arrange power supply to execute the work assigned through tender.
21. The construction firm/company/contractor are advised to see the local conditions at the site before submitting the tender.
22. It is desirable from all the construction firm/company/contractor to go through all the terms and conditions of the tender carefully before quoting the rates and submitting the tenders.
23. The period of validity of tender shall be 60 days from the date of opening of sealed tender.
24. The management committee of **Unity orgo Farmers/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro FPC** reserves the right to reduce the scope of work as well as to undertake the work in phase. Such reduction or phasing in the scope of work will not entail any extra claim from the construction firm/company/contractor.
25. Time is essence of contract.
26. All safety rules are to be observed while working on live electrical system of installation as stipulated in I.E. Rules shall be observed.
27. The schedule of quantities is only approximate and the quantities of any item in the schedule may vary to any extent. The construction firm/company/contractor shall hereby note that quoted rate of each item will remain firm and will not be changed due to variation in quantity of the item.
28. The construction firm/company/contractor at his own cost shall remove from site all the loose stones, debris, brushwood, etc. as desired.
29. The successful construction firm/company/contractor is bound to carry out any items of work necessary for the completion of the job even though such items are not included in the

quantities and rates. Schedule of instruction in respect of such additional items and these quantities will be issued in writing by the employer.

30. The construction firm/company/contractor shall also give a list of machinery in their possession and which they propose to use on the work. If fabrication is done at workshop then all transportation is responsibility of fabricator.
31. Every construction firm/company/contractor should furnish along with tender a statement showing previous experience and technical staff employed by him.
32. Post Tender negotiations will be done with only L1 party as per CVC rules & directions.
33. All provisions of labor law and related state legislation must be strictly followed.
34. The construction firm/company/contractor should submit their registration proof if any including solvency, previous work experience proof of 3 years certified by their employers and last income tax clearance certificate.
35. A) If it shall appear to the Employer that any work has been executed unsound, imperfect or un-skill full workmanship or with materials of an inferior description or any materials or articles provided by the construction firm/company/contractor for the execution of work are unsound or of inferior quality the construction firm/company/contractor shall on the instruction of employer rectify or remove and reconstruct as specified by the employer, at his cost, notwithstanding that the same may have been inadvertently passed and paid for, failing which the contract shall be terminated by the employer.

B) The measurement of the work will be recorded for preparation of bill in presence of our engineer and the representative of construction firm/company/contractor and payment will be made for actual quantity of work & measure
36. The Construction firms/company/contractor can bid for the all or any of the one component and It should be superscript it on the respective technical and financial bid.
37. The Construction firms/company/contractor must make changes in the work subject to any changes in the design as per Annexure 6 and 7.
38. Corrigendum / Addendum, if any will be available only on web link www.mahaonion.org.

The rights to accept or reject any or all the tenders without assigning any reasons thereof are reserved by **Unity orgo Farmers/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro FPC.**

39. Notice of Termination of the Contractor - Contractor can be terminated if there are is he breaches certain terms of the contract or fails to perform its obligations or when a prolonged suspension or force majeure type event occurs or fails to complete the project in stipulated time frame as per clause 17 and Termination notice of 4-7 days will be served to the contractor.

40. On the background of Lockdown due to COVID 19 following-

- a. Contractor must submit Undertaking.
- b. There may be changes in the material as per the availability and access.

41. Submission of the Documents:

- a. Please enclose the draft and covering letter in a small sealed envelope.
- b. Please enclose the tender form in a bigger sealed envelope.
- c. Please enclose the above a & b envelops with addressed to:

Chief Executive Officer/Directors,

Unity orgo Farm/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro FARMERS PRODUCER COMPANY LIMITED

Address:.....

.....

(Refer chapter 4)

(By Regd. Post/Speed Post or by hand only)

4. Name of FPCs/Cluster

Sr. No.	District	Name of the FPC	Address
1	Nashik	Sugi Farmer Producer Company Ltd	Sonar Galli Antapur, mu post Antapur Nashik City Nashik MH 423302 IN
2	Ahmednagar	Dahigaon Sai Mauli Farmers Producer Company Limited	C/o. RAJENDRA JAYWANTRAO ABHALE, H No 610, DAHIGAON BOLKA TAL- KOPARGAON, AHMEDNAGAR MH 423601 IN
3	Ahmednagar	Mulamai Agro Producer Company Limited	AT POST- WARWANDI, TAL- RAHURI DIST- AHMEDNAGAR MH 413722 IN
4	Ahmednagar	Sai Pravara Shetkari producer Company Limited	GUT NO 393 AT POST CHINCHOLI TQ RAHURI AHMADNAGAR MH 413710 IN
5	Pune	Virtual Agrofarm Producer Company Limited	H. NO. 678, NGN URBAN TAL JUNNAR, NARAYANGAON, PUNE MH 410504 IN
6	Osmanabad	Ajinkya Agro Producer Company Limited	H.NO 47/8 AT WASHI OSMANABAD MH 413035 IN
7	Ahmednagar	Unity Orgo Farm Producer Company Limited	LONI VYAANKANATH, SHRIGONDA Ahmednagar MH 413702 IN

5. PRICE BID

Sr. No.	Item	Number	Amount (excluding GST)
1	Onion storage Boxes as per selection of design	1000 MT each site (31.5 MT capacity each)	1558000 or 1382000
2	Self-Supported Roofing	3 Bay – Approx. 2218 Sq. mt	Approx. 2107100
		2 Bay – Approx. 2185 Sq. mt	Approx. 2075750

Quoted..... % excess / below / at par with estimated cost:

Final quoted cost:

In words:

Note: Rates are inclusive of all material tools plant, labor and transportation charges, and all other charges/services other than not mentioned here, excluding GST/Taxes.

(Signature & seal of Contractor)

DECLARATION OF THE CONSTRUCTION FIRM/COMPANY/CONTRACTOR

I/we hereby declare that I/we have made myself/ourselves thoroughly conversant with local conditions regarding all materials and labor of which I/we have based my/our rates for this work. The tender with conditions and specifications etc. for this work have been carefully studied and understood before submitting this tender. I/we undertake to use only the best materials approved by the employer before starting the work starting the work and to abide by his/their decision.

(SIGNATURE & SEAL OF
CONSTRUCTION FIRM/COMPANY/CONTRACTOR)

**DECLARATION OF THE CONSTRUCTION FIRM/COMPANY/CONTRACTOR FOR
COVID-19**

I/we hereby declare that I/we have made myself/ourselves that We will follow the following works rules-

- i. Work will be done by keeping social distance.
- ii. Necessary permissions will be taken for resuming work and movement of labor & material.
- iii. Safety of the labors will be sole responsibility of contractor.

(SIGNATURE & SEAL OF CONSTRUCTION FIRM/COMPANY/CONTRACTOR)

Annexure 1

B: Estimated cost for Self-supporting Roofing

SR. NO	TYPE OF STRUCTURE	Qty	Rate	Unit	Amount
1	3 BAY	2218	950	sqm	2107100
2	2 BAY	2185	950	sqm	2075750
Work scope in brief: Providing and fixing roofing with wind ties including fastening with etc. completed					

Annexure 2 (Scheduled B)

Name Of Work:- PROVIDING & FABRICATING 31.25 MT CAPACITY ONION STORAGE STRUCTURES

Item No.	Particulars	Qty	Unit Rate	Amount
1)	Structural Steel -Providing and fabricating structural steel work in rolled sections fixed with connection plates or angle cleats main and cross beam hips jack and rafter purlings connected to truss and the like as per details design and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position making welded connection on coat anti-corrosive paint and it over two coats of oil paints approved quality and shade.			
	Design 1 (in Iron angles)	0.81 MT	55000 MT	44550
	Design 2 (in Iron square pipes)	0.71 MT	55000 MT	39050
2)	Jali - Providing GI Chain Link OF Size 35x30x12 Guage thick for onion chawl completed.			0.00
		68.75	60 sq. m	4125
	Design 1			48675
	Design 2			43175

Cumulative Capacity of 1000 MT capacity information at each location

Sr. No.	Item	Unit	Amount
1	Onion Storage structure Structure (32 BOX)	1	
	Design 1		15,57,600
	Design 2		13,81,600
		Total	1557600 or 1381600 (as per design selected by FPC)
		Say	1558000 or 1382000

I/we hereby quote/tender for the execution for the CEO/director, Unity orgo Farm/ Dahigaon Saimauli Farmers/Virtual Agrofarm/Sugi/Sai pravara Shetkari/Mulamai Agro/Ajinkya Agro FPC of the work specified in under Written memorandum at % Above/Below

The estimated rates entered in the schedule 'B'.

Contractor Sign

Annexure 4

Self-Supported Roofing Specifications & Terms and conditions

The self-supported roofing system agency should comply the following specifications, terms and conditions:

Self-supported roofing agency shall be able to provide and fix mechanically seamed roofing system made up of high strength quality steel, having 350 MPA yield strength, pre coated galvalume sheet as per ASTM A792 M of base metal thickness of 0.8 mm with Tolerance of +/- 0.02 mm. High grade steel sheet should have 55% aluminium and 45% Zinc coating by hot dip process of minimum 25 micron on top side and 12 micron on back side with epoxy primer and polyester wash -coat as per AZM 150.

Roofing should be designed as per ASCE 7-20 international building code 2002. The roof panel formation shall be done as per the required length and curvature using hydraulic operated profile machine to give it the trapezoidal shape in required curvature. In this process the width of sheet the width of sheet reduces from 0.914 meter to 0.62 meter (tolerance +/- 0.02 m).

The roof panel shall be lifted using a suitable crane and using a spreader bar and a sling evenly placed to ensure no distortion of panel till the alignment is done and completed using plumb and a water tube and bolted into beam. These curved panels should have interlocking formation and must be crimped together using mechanical seaming machine which imposed a load of approximately five tons to ensure the seaming of required rigidity. Minor color chipping/scratching should be rectified by applying Epoxy lacquer. After seaming a clear epoxy lacquer is applied on the inner side of panel and concrete beam. These panels are installed over fabricated gutter - beams having beveled edge to receive (support) curved panels. Necessary arrangement including the supply for the installation of fasteners at the end will be there in the scope of the Self-supported roofing agency.

Contractor shall ensure that beam is designed for arch reaction and vertical loads.

The self-supported roofing system should be designed to withstand the wind load (as per IS 875 part-3) & Earthquake load (as per IS 1893). Area of this roof shall be measured along the periphery on hem-top between end to end panels. Ridge and valley shall not be taken in to consideration for measuring length transverse to periphery.

Adequate precaution shall be taken by the vendor during the installation process for the safety of their workers. Safety belts, helmets and other safety equipment for the execution of job must have used, wherever required. Working in height Panel's installation process shall not be carried out in case of wind velocity at site location is above 22 K.M./Hrs.

The material of IMPORTED GALVALUME STEEL to comply the following specifications:

a. Technical Details:

- Standard – Color Coated GALVALUME Steel complying to ASTM A792
- Base Metal Thickness – 0.80 MM (Tolerance as +/- 0.02 MM)
- Alloy Coating – AZ 150 (Aluminum 55%, Zinc 43.5%, Silicon 1.5%)
- Yield Strength – 350 MPA
- Paint Coating – Regular Modified Polyester. Top Coat 25 Micron & Bottom Coat 12 Micron

Color Pattern – White (RAL 9002) or BLUE (RAL 5012) or combination of both as per approval.

C) Inspection & Testing:

Once the material is received by the agency in India the same will be inspected by our inspection team and samples shall be drawn from the same.

Before the sheet is used for roofing at site, these samples will be tested, if deemed necessary by the client at a reputed laboratory for the followings:

- Thickness
- Coating Mass (AZ 150)
- Yield/ Tensile Strength

Charges for the same if any shall be borne by the agency.

Besides this the agency also need to submit the material test report from the steel mill supplier for each steel coil.

Roof sheet material should have edge marking of manufactures name and base material thickness on it at regular intervals.

(d) Warranty Certificate

Roofing agency shall provide material test certificates and warranty certificate (minimum 10years of warranty period) as received from the material supplier.

Machinery list

List of self-owned/rented machineries & list of technical staff required for work should be provided by the roofing agency and bidder should upload the same in Envelope no.1 at the time of uploading Tender.

MOU/Agreement:

For providing the self-supported roofing system, an agreement / MOU shall be made by bidder/contractor with the roofing agency qualifying above details. The original document shall be uploaded along with the technical bid. If bidder fails to upload this document the tender will be rejected.

Synchronisation of Job

The roofing agency and the bidder shall have good bonding with each other and their representative assigned for this job have to remain in touch with each other for proper liaison during the various stages of the work.

As and when the construction reaches door level tie beam stage, contractor & roofing agency shall inform each other to ensure that the material and machinery for fabrication of sheeting work reaches the site in time.

All Structural material should be shot blasted before painting.

List of machineries and manpower required for execution of self supported roofing system.

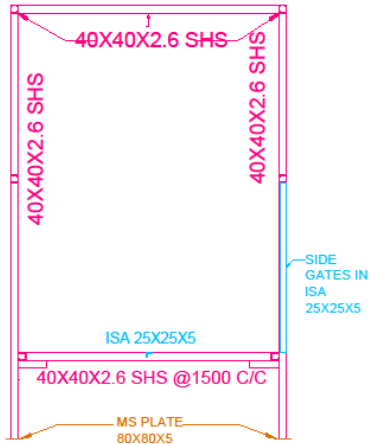
We are pleased to confirm following list of self-owned/rented machineries and working staff required for self-supported roofing execution as follows:

Sr No	Description	Quantity
1	Hydraulic operated Panel fabrication machine	1 number
2	Hydraulic Telescopic Crane	1 nos with each machine
3	Horse Truck / Puller	1 nos with each machine
4	Skilled Labours	35 nos with each machine
5	Experienced Machine Engineer	1 nos with each machine
6	Experienced Machine Supervisor	1 nos with each machine

Annexure 6

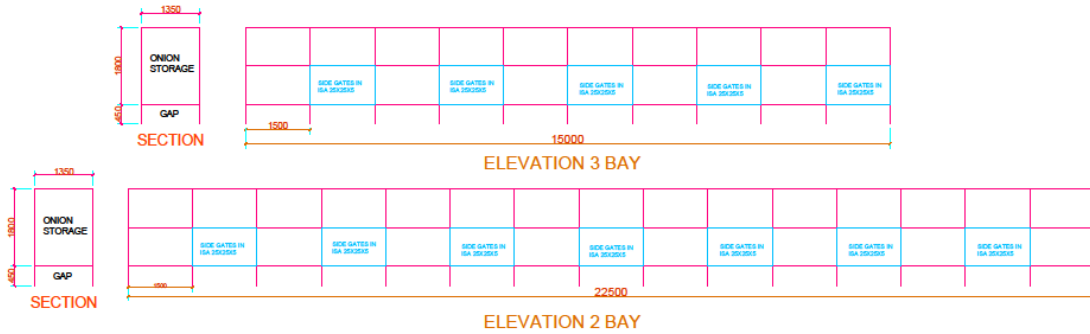
Onion Storage structure of 1000 MT Capacity

Design -1

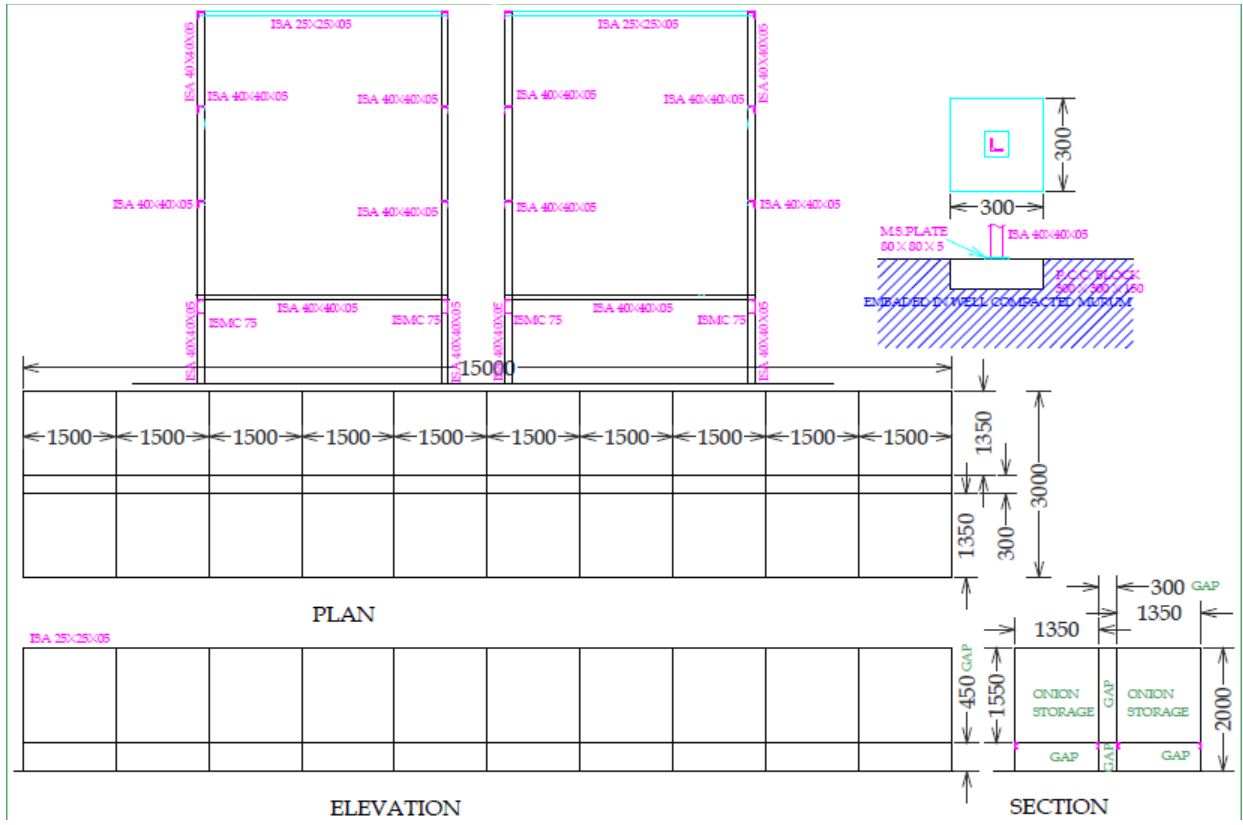


NOTES	
1	WHOLE ONION STORAGE STRUCTURE IS NUT BOLTED , DETACHABLE , SEPARABLE
2	FOR 3-BAY SHED 32 NOS OF ONION STORAGE CHAAL OF LENGTH 15M EACH .
3	FOR 2-BAY SHED 21 NOS OF ONION STORAGE CHAAL OF LENGTH 22.5M EACH .
4	FOR 3-BAY SHED ONION STORAGE CHAAL OF LENGTH 15M. IS SUPPOSED TO MADE IN 7.5M OF SEPARABLE SECTIONS.
5	FOR 2-BAY SHED ONION STORAGE CHAAL OF LENGTH 22.5M. IS SUPPOSED TO MADE IN SEPARABLE SECTIONS OF 7.5M EACH.
6	SIDE GATE MADE IN ISA 25X25X5

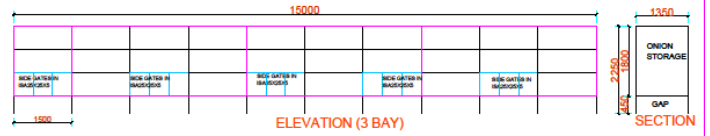
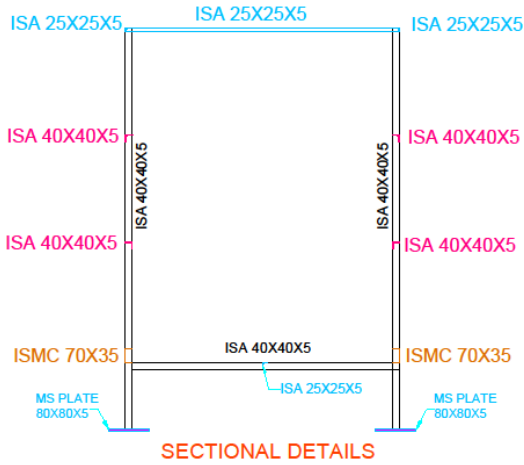
ALL DIMENTIONS ARE IN MM.



Arrangement of Chawls:

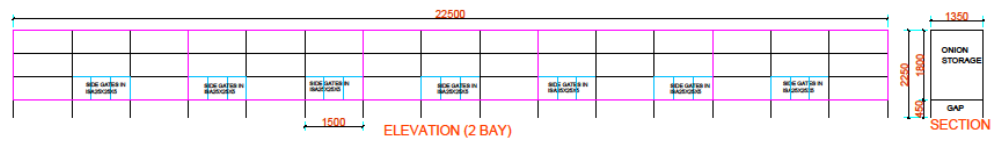


Chawl Design -2



NOTES	
1	WHOLE ONION STORAGE STRUCTURE IS NUT BOLTED , DETACHABLE , SEPARABLE
2	FOR 3-BAY SHED 32 NOS OF ONION STORAGE CHAAL OF LENGTH 15M EACH .
3	FOR 2-BAY SHED 21 NOS OF ONION STORAGE CHAAL OF LENGTH 22.5M EACH .
4	FOR 3-BAY SHED ONION STORAGE CHAAL OF LENGTH 15M. IS SUPPOSED TO MADE IN 4.5M + 4.5M + 4.5M + 1.5M OF SEPARABLE SECTIONS.
5	FOR 2-BAY SHED ONION STORAGE CHAAL OF LENGTH 22.5M. IS SUPPOSED TO MADE IN SEPARABLE SECTIONS OF 4.5M EACH.
6	SIDE GATE MADE IN ISA 25X25X5 ARE PROVIDED TO ALTERNATE CUBILCE

ALL DIMENTIONS ARE IN MM.



Annexure 7 Design of Self supported roofing

