

W-5  
Aug  
2022

**PROCUREMENT OF CIVIL WORKS  
UNDER  
NATIONAL SHOPPING PROCEDURES**

**FOR**

**Construction of Processing Shed 88 Sq.M**

**FOR**

**Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. Gut No.  
21/205, At -Khairgaon, Po -Waigaon, Ta - Samudrapur, Dist - Wardha**

**UNDER**

**Hon. Balasaheb Thackeray Agribusiness Rural  
Transformation (SMART) Project**

## **TENDER NOTICE**

**Hon. Balasaheb Thackeray Agri-business & Rural Transformation Project (SMART)**  
Govt. of Maharashtra is implementing World Bank assisted Hon. Balasaheb Thackeray Agribusiness And Rural Transformation (SMART) Project for developing Agriculture Commodity value chains. Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. Gut No. 21/205, At -Khairgaon, Po -Waigaon, Ta - Samudrapur, Dist -Wardha is one of the beneficiaries under the project and inviting bids for the following works.

Name of work (Components)	Estimated Tender Amount in Rs.	Tender fee Rs.	EMD	Period of Completion in Months
<b>Construction of Shed 88 Sq M</b>	<b>15.13 Lakh</b>	<b>500+90 (18% GST) = 590/-</b>	<b>Submission of bid security declaration</b>	<b>6 Month</b>
Sale of tender document		From 18/05/2023 To 01/06/2023 up to 5.00PM		
Date & Time of Pre-bid meeting		25/05/2023 at 11.00 AM		
Tender Submission end date & time		01/06/2023 up to 5.00 PM		
Technical bid opening date & time		06/06/2023 at 11.30 AM		

Bid document is available at the following office address and also on project website <https://www.smart-mh.org>. For further any updates / notices shall be published on project website only.

-sd-

**President**

**Mr. Anil Ramkrushna Gudadhe**

**Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd.**

**GutNo. 21/205, At - Khairgaon, Po - Waigaon, Ta - Samudrapur, Dist -  
Wardha, Contact no.9823513541 E mail: vidarbhafpo@gmail.com**

INVITATION FOR QUOTATIONS FOR **[on letter head of CBO]**  
**Construction Of Shed 88 Sq.M.**

Date: 18/05/2023

RFQ No.: SMART/VNSUK FPC /Works/BOQ 18/2022-23

To

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Sub: Invitation For Quotations for Proposed Construction work for Construction Of Shed 88 Sq.M.

Dear Sirs,

- 1) Govt. of Maharashtra is implementing World Bank assisted Hon. Balasaheb Thackeray Agribusiness And Rural Transformation (SMART) Project for developing Agriculture Commodity value chains. Project is extending up to 60% grants in the form of Viability Gap Fund (VGF) to eligible Community Based Organizations (CBO).
- 2) The SMART Project is being implemented by various Project Implementation Units. PIU-Agriculture is one of the implementing unit of SMART Project. Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. Gut No. 21/205, At -Khairgaon, Po -Waigaon, Ta - Samudrapur, Dist –Wardha is one of the beneficiaries of PIU-Agriculture under the SMART project.
- 3) Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. Gut No. 21/205, At - Khairgaon, Po -Waigaon, Ta - Samudrapur, Dist –Wardha (hereinafter referred to as employer) is inviting quotation for the following work under the SMART Project.
- 4) You are invited to submit your most competitive quotation for the following works:-

Sr. No.	Brief Description of the Works	Approximate Value of Work (in Rs.)	Period of completion
1	<b>Construction Of Shed 88 Sq.M</b>	<b>15.13 Lakhj</b>	<b>6 Month</b>

- 5) To assist you in the preparation of your quotation, we are enclosing the following:
  - a) Layout Drawings of the works;
  - b) Detailed Bill of Quantities,
  - c) Technical Specifications;
  - d) Instructions to Bidders (in two sections).
  - e) Draft Contract Agreement format which will be used for finalizing the agreement for this Contract.
- 6) You are requested to provide your offer latest by 5.00 pm on 01/06 /2023.
- 7) Technical bid will be opened in the presence of bidders or their representatives who choose to attend at 11.30 am on 06/06 /2023 in the office of Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. Gut No. 21/205, At -Khairgaon, Po -Waigaon, Ta - Samudrapur, Dist –Wardha
- 8) We look forward to receiving your quotations and thank you for your interest in this project.

-sd-

**President, Procurement Committee**

**Name:** Mr. Anil Ramkrushna Gudadhe

**Office Address-** Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd.GutNo. 21/205, At - Khairgaon, Po - Waigaon, Ta - Samudrapur, Dist - Wardha

**Tel no-**9823513541

**Email id-**vidarbhafpo@gmail.com

## Instructions to Bidders

### SECTION - A

#### 1. Scope of Works:

Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. Gut No. 21/205, At - Khairgaon, Po -Waigaon, Ta - Samudrapur, Dist –Wardha invites quotations for the construction of works as detailed in the table given below

Sr. No.	Brief Description of the Works	Approximate Value of Work (in Rs.)	Period of completion
1	Construction Of Shed 88 Sq.M	15.13 Lakhj	6 Month

The successful bidder will be expected to complete the works by the intended completion date specified above.

#### 2. Qualification of the bidder:

The bidder shall provide qualification information which shall include:-

- total monetary value of construction works performed for each year of the last 3 years;
- Report on his financial standing; (Turn over certificate issued by Chartered Accountant for last three years); and
- Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount or awards in each case.
- Should possess valid license for executing civil works as per appropriate class issued by central or state PWD or any government department.

#### 3. To qualify for award of the contract the bidder:-

The bidder should fulfill following all qualification criteria;

- Should have GST registration
- Should possess valid license for executing civil works as per appropriate class issued by central or state PWD or any government department.
- should have achieved in at least one year an annual financial turnover (in civil engineering construction works of similar nature only) of value not less than Rs 32 lakh @ in the last three years i.e. FY 2019-20, 2020-21,2021-22 ;
- Experience of having successfully completed similar works during last 5 years ending last day of month previous to the one in which bid is invited
  - Three similar completed works each costing not less than the amount equal to Rs. 6 lakh **OR**
  - Two similar completed works each costing not less than the amount equal to Rs. 8 lakh **OR**
  - One similar completed work costing not less than the amount equal to Rs. 12 Lakh
- Should not have been black listed, debarred or suspended on the date of bid opening by any of the Government organization, the World Bank Group.
- \* should possess valid electrical license for executing building electrification works (in the event of the works being sub-contracted, the sub-contractor should have the necessary license);

- g) No contract should have been suspended or terminated and/or performance security called by an employer(s) for reasons related to Environmental, Social (including sexual exploitation and abuse (SEA) and gender-based violence (GBV)), Health, or Safety (ESHS) requirements or safeguards in the past five years.
- h) Should not have Conflict of Interest as mentioned in the ITB 4.

**4. Conflict of Interest:**

Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:

- a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
- b) receives or has received any direct or indirect subsidy from another Bidder; or
- c) has the same legal representative as another Bidder; or
- d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
- e) any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Engineer for the Contract implementation;
- f) has a close business or family relationship with the concerned professional staff of the Borrower or of the project implementing agency.

(\*for further details refer to paragraphs 3.14 and 3.15 of the "Procurement Regulations" setting forth the World Bank's policy on conflict of interest)

**5. Bid Price**

- a) The contract shall be for the whole works as described in drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialing, dating, and rewriting.
- b) The rate/price should be inclusive of all duties, GST and other levies payable by the contractor under the contract
- c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) The bidder shall fill in the prices for the Works in conformity with the bidding documents, both in figures and words.
- e) Bidder need to quote for all the items mentioned in the BOQ. If bidder failed to quote for any or more items given in the BOQ and if bidder is selected, in such case bidder has to complete the work of the said item/items without any cost.

**6. Validity of Quotation**

Quotation shall remain valid for a period not less than 90 days after the deadline date specified for submission.

**7. Tender Fee & Bid Security:**

**a) Tender Fee:**

Bidding document should be purchased from the Employer office for a non-refundable fee as indicated. Bidder may also download bidding document from aforesaid website and submit bid document cost in the form of demand draft

along with the bid. If bidder fails to submit the tender fee, the bid submitted by such bidder shall be rejected.

**b) Bid Security :**

- 1) Bidder should submit bid security declaration in the attached format. If bidder not submitted bid security declaration, the bid submitted by such bidder shall be rejected.
- 2) The Bid Security declaration shall be executed
  - a) if a bidder withdraws its bid prior to the expiry date of bid validity specified by the bidder on the letter of bid or any extended date provided by the bidder; or
  - b) During the bid process, if any information submitted found manipulated / hidden /false / mala fide in the bid
  - c) if the successful Bidder fails to
    - (i) sign the Contract or
    - (ii) furnish a Performance Security

**8. Submission of bid.**

- a) The bidder is advised to visit the site at his own expense and obtain all information that may be necessary for preparing the bid.
- b) Each bidder shall submit only one bid.
- c) Modification and Withdrawal of Bids – Resubmission of bid by the bidders for any number of times before the final date and time of submission is allowed.
- d) Bid shall comprise of the following 2 envelopes:
  - 1) **Envelope 1:** Technical bid
  - 2) **Envelope 2:** Financial /price bid

Note: The above both the envelopes are to be submitted in a separate sealed envelope mentioning the Technical bid and financial bid on top of the each envelop and bidders name at bottom of the envelope. Both these two envelopes shall be packed in a one outer envelope & seal it.

The sealed outer envelope will also bear the following identification: -

- Bid for Construction Of Shed 88 Sq.M.
- Bidder's name.....
- Bidder's address .....
- Bidder's contact number .....

**1) Technical bid: (Envelop 1)**

The bidder shall submit following documents in the technical envelope.

- 1) Demand draft towards tender document fee if tender document downloaded from the website OR payment receipt if tender document purchased from the employer office.
- 2) Details of technical documents submitted (form no 1)
- 3) Qualification information in the format (Form -2)
- 4) Bid security declaration (Form-3)
- 5) The declaration that the bidder is not black listed/banned by any Government department / Public Sector Undertaking/ Private Sector/ or any other agency (form no 4)
- 6) Declaration about not have Conflict of Interest as mentioned in the ITB 4. (Form No 5)
- 7) Turn over certificate issued by the Chartered Accountant (Form-6)
- 8) Evidence of access to or availability of cash flow (Format 7)
- 9) Contractor registration certificate of appropriate class issued by the any Government organization.

10) GST registration certificate

11)\* valid electrical license for executing building electrification works (self or sub-contractor )

**2) Financial Bid: (Envelop 2)**

The bidder shall quote for all items given in the attached quotation format only (Form no 8 & 9).

**9. Bid opening and Evaluation process:**

**a) Opening of Envelop - A (Technical Bid)**

The 'Technical Envelop' of bids will be publicly opened first in the presence procurement committee members and bidders' designated representatives and anyone who chooses to attend at the address on the date and time specified in the tender notice. In the event of the date specified for bid opening being declared as a closed holiday for the purchaser's office, the due date for opening of bids will be the following working day at the same time and venue.

**b) Evaluation of Technical Bid**

The evaluation of the technical bids will be carried out as per the eligibility criteria mentioned in the clause 3. The bidders fulfilling minimum eligibility criteria are declared technically qualified and eligible opening of the financial proposal.

**c) Opening of Envelop - 2 (Financial Bid)**

Financial envelope of technically qualified bidders shall be opened in the presence procurement committee members and bidders' designated representatives on the date and time informed by the purchaser.

**10. Correction of Arithmetical Errors**

1. If the bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

2. Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction shall result in the rejection of the Bid.

**11. Evaluation of Financial bids/ Quotations**

To evaluate a bid, the Purchaser shall consider the following:

- (a) Financial evaluation will be done for all items together
- (b) Price adjustment for correction of arithmetic errors in accordance with ITB 10.

- (c) By applying the above evaluation criteria, the Purchaser shall determine the Most Advantageous Bid. This is the bid of the bidder that meets the qualification criteria and whose bid has been determined to be:
  - (a) Substantially responsive to the bidding document; and
  - (b) the lowest evaluated cost.
- 12. Information relating to evaluation of bids and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.
- 13. **Award of contract:**
  - a) The Employer will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria.
  - b) Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
  - c) The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the quotation validity period.
- 14. **Performance Security:**

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the employer the performance security in the form of Demand draft in favor of the employer for an amount equivalent of 3 % of the contract price.
- 15. **Period of Maintenance:**

The "Period of Maintenance" for the work is Twelve months from the date of taking over possession or one full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.
- 16. Purchase of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.

## SECTION - B

- 1. Format for Qualification Information.
- 2. Format for Submission of Quotation.
- 3. Format of Letter of Acceptance.



**Details of technical documents submitted**

(On bidder's letter head)

<b>Sr. No.</b>	<b>List of documents to be submitted</b>	<b>Document page No</b>
1	Tender fee receipt	
2	Qualification Information (form no 2)	
3	Bid security declaration (Form no 3)	
4	The declaration that the bidder is not black listed/banned by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency (form no 4)	
5	Declaration about not have Conflict of Interest as mentioned in the ITB 3. (Form No 5)	
6	Turn over certificate issued by the chartered Accountant for financial years i.e. FY 2019-20, 2020-21,2021-22 (Form No 6) or copy of ITRs or balance sheet	
7	Evidence of access to or availability of cash flow (Form No 7 )	
8	Valid license for executing civil works as per appropriate class issued by central or state PWD or any government department	
9	GST registration certificate	
10	Valid electrical license for executing building electrification works <b>(if applicable)</b>	

Signature

Name of Authorized Signatory.....

Bidder's Office Seal

**Note: Bidders should submit this form along with all above mentioned required documents. Each document should be numbered. Employer reserves the right to reject the bid if any of the required documents are not submitted by the bidder along with the bid.**

## QUALIFICATION INFORMATION

**1 For Individual Bidders****1.1** Principal place of business: \_\_\_\_\_

Power of attorney of signatory of Bid.

**[Attach copy]**

**1.2** Total value of Civil\*\* Engineering 2019 - 2020 \_\_\_\_\_  
 construction work performed in the last 2020 - 2021 \_\_\_\_\_  
 three years (in Rs. Lakhs) 2021 - 2022 \_\_\_\_\_

**1.3** Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

Project Name	Name of Employer	Description of work	Contract No.	Value of contract (Rs. Lakhs)	Date of issue of work order	Stipulated period of completion	*Actual date of completion	Remarks explaining reasons for delay and work completed
1	2	3	4	5	6	7	8	9

\*Completion certificate of Concern Engineer/ authorized person of client should be submitted along with the bid document.

**Existing commitments and on-going works:**

Description of Work	Place & State	Contract No. & Date	Value of Contract (Rs. Lakh)	Stipulated period of completion	Value of works ** remaining to be completed (Rs. Lakhs)	Anticipated date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)

\*\* Certificate of concern engineer /authorized person of client should be submitted along with the bid document

**1.4** Proposed subcontracts and firms involved.

<b>Sections of the works</b>	<b>Value of Sub-contract</b>	<b>Sub-contractor (name &amp; address)</b>	<b>Experience in similar work</b>

**1.5** Evidence of access to financial resources to meet the requirement of working capital: cash in hand, lines of credit, etc. List them below and attach copies of supporting documents.

<b>Particulars</b>	<b>Amount</b>	<b>Details</b>
Cash in hand		
Availability of Cash flow		
Other source of fund if any		

**1.6** Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

<b>Name of Bank</b>	<b>Detailed Address</b>	<b>Contact No</b>

**1.7** Information on litigation history in which the Bidder is involved.

<b>Other party(ies) 1</b>	<b>Employer 2</b>	<b>Cause of dispute 3</b>	<b>Amount involved 4</b>	<b>Remarks showing present status 5</b>

If there is NO any litigation, then mention NIL.

If YES then mentioned the details column 3 and status in column 5

**1.8** Contract(s) suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental, Social (including sexual exploitation and abuse (SEA) and gender-based violence (GBV)), Health, or Safety (ESHS) performance during the last five years. *(If YES, mention details in the following format)*

<b>Contract(s) suspended or terminated by an Employer(s)</b>			
<b>Year</b>	<b>Contract Identification, Name and address of the Employer, and reasons for suspension or termination</b>	<b>Amount of suspended or terminated portion of contract (Rs)</b>	<b>Total Contract Amount (Rs)</b>
<b>Performance Security called by an employer(s)</b>			
<b>Year</b>	<b>Contract Identification, Name and address of the Employer, and reasons for calling of performance security</b>	<b>Total Contract Amount (Rs)</b>	

Signature

Name of Authorized Signatory.....

Bidder's Office Seal

**BID SECURITY DECLARATION**  
**(To be submitted on the Bidder's Letter Head)**

Date: *[insert date]*

RFQ Ref No.: SMART/VNSUK FPC /Works/BOQ 18/2022-23 Dt-18/05 /2023

To,

**President**

**Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. GutNo. 21/205,**

**At - Khairgaon, Po - Waigaon, Ta - Samudrapur, Dist - Wardha**

We, the undersigned, declare that:

We understand that, according to your conditions, quotation must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with any CBO or project implementing unit under SMART or various offices under various Government organization / World Bank funded Projects for the period of 3 years starting from opening of the financial bids, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity or
- (b) having been notified of the acceptance of our Bid by the employer during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security in accordance with the clauses of Request for Quotation.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Signature:

Name of person signing bid-security declaration:

Designation:

Name of Bidder:

Date:

Bidder's office Seal:

**FORMAT OF SELF DECLARATION WITH REGARD TO BLACKLISTING/ NON-  
DEBARMENT & ESHS**

**(To be submitted on the Bidder's Letter Head)**

Date: *[insert date]*

Tender Ref No.: SMART/VNSUK FPC /Works/BOQ 18/2022-23 Dt-18/05 /2023

To,

**President**

**Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. GutNo. 21/205,**

**At - Khairgaon, Po - Waigaon, Ta - Samudrapur, Dist - Wardha**

I hereby confirm and declare that we, M/s -----,  
is not blacklisted/ De-registered/ debarred by any Government department /Public  
Sector Undertaking/ Private Sector/ or any other agency for which we have Executed/  
Undertaken the supply goods/ works/ Services during the last 3 years.

We also confirm and declare that no contract should have been suspended or  
terminated and/or performance security called by an employer(s) for reasons related to  
Environmental, Social (including sexual exploitation and abuse (SEA) and gender-based  
violence (GBV)), Health, or Safety (ESHS) requirements or safeguards in the past 5 years.

Signature

Name of Authorized Signatory.....

Bidder's Office Seal

**FORMAT OF SELF DECLARATION: NOT HAVE CONFLICT OF INTEREST**  
**(To be submitted on the Bidder's Letter Head)**

Date:

Tender Ref No.: SMART/VNSUK FPC /Works/BOQ 18/2022-23 Dt-18/05 /2023

To,

**President**

**Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. GutNo. 21/205,**

**At - Khairgaon, Po - Waigaon, Ta - Samudrapur, Dist - Wardha**

We hereby confirm and declare that we, M/s -----,  
not have Conflict of Interest as mentioned in the ITB 4. We undertake that we shall be  
liable for any punitive action in case of false declaration.

Signature

Name of Authorized Signatory.....

Bidder's Office Seal

**TURNOVER CERTIFICATE ISSUED BY CHARTERED ACCOUNTANT FIRM  
(on CA's letter head)**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that M/s. (name of bidder) is having registered office at (detailed office address). The turnover of the (name of firm) for the three financial year based on the audited financial Statement is as under.

<b>Sr. No.</b>	<b>Financial Year</b>	<b>Turnover in Rs.</b>
1		
2		
3		
	Total Turnover	
	Average Turnover	

The above information/figures are true and authentic to the best of my knowledge and belief. I/we am/ are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of bid or at any stage, besides liabilities towards prosecution under appropriate law.

Signature of the Chartered Accountant

Name of the Firm

Registration No.

Date:

Place:  
(Seal of the Chartered Accountant)

Email id:

**FORM-7**

**FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CASH FLOW**

(To be provided on the letter head of the Bank)

**AVAILABILITY OF CASH FLOW (WORKING CAPITAL)**

This is to certify that M/s. \_\_\_\_\_ is a reputed company with a good financial standing. If the contract for the works, namely (*mention the name of work by the bank*) \_\_\_\_\_ is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of INR \_\_\_\_\_ to meet their capital requirements for executing the above contract.

**Signature of Bank Manager**  
**Name of Bank Manager**  
**Stamp of the Bank**

**LETTER OF QUOTATION  
(On Bidders Letter head)**

RFQ No: SMART/VNSUK FPC /Works/BOQ 18/2022-23 Dt-18/05 /2023  
Date of Quotation Submission: .....

To,

**President  
Vidarbha Naisargik Shetmal Utpadak Kisan Producer Co. Ltd. GutNo. 21/205,  
At - Khairgaon, Po - Waigaon, Ta - Samudrapur, Dist - Wardha**

Subject: Submission of Quotation for Construction of *Construction Of Shed 88 Sq.M*

Sir,

We have no reservations to the Invitation for Quotation Document, and offer to execute the Works referred above in accordance with the Conditions of Contract enclosed therewith at a Total Contract Price of –

Rs. \_\_\_\_\_ [in figures]

Rs. \_\_\_\_\_ [in words].

This quotation and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any quotation you receive.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.

We confirm that we bound to comply with (i) the applicable Laws/ Rules/ Regulations for protection of environment, public health and safety; (ii) the regulatory authority conditions (if any) attached to any permits or approvals for the project;

We confirm that, if our quotation is accepted, we are responsible to submit and implement the detailed plan to comply the entire requirement mentioned in the annexure -2 with respect to Environmental, Social (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), Health and Safety risks. We also confirm that we have included all cost associated for implementation of this plan in our quotation. We hereby confirm that this quotation is valid for 90 days as mentioned in Instructions to bidders.

We have not been currently debarred or suspended by any Government Organization, the World Bank Group.

Yours faithfully,

Authorized Signature : \_\_\_\_\_ Date signed:

Name & Title of Signatory : \_\_\_\_\_

Name of Bidder : \_\_\_\_\_

Address : \_\_\_\_\_

**BILL OF QUANTITIES**

The approximate Bill of Quantities is indicated below to give an idea of the work which should be executed in accordance with the approved drawings and specifications to enable the bidder to furnish the Item rate wise price. Bidders may, however, note that no variations in the Item rate cost are acceptable (except where extra items are ordered by the Engineer).

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
<b>A</b>	<b>S.W. I- CIVIL WORK</b>					
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	15.04	Cum			
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means	11.47	Cum			
3	Excavation for foundation in Hard murum and boulders including removing the excavated material upto a distance of 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 m to 3.0 m.) By Mechanical Means	2.65	Cum			
4	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled	5.25	Cum			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
	reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)					
5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	0.91	Cum			
6	Providing uncoursed rubble masonry of trap/granite/quartzite/gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls/in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.	1.00	Cum			
7	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete.	11.47	Sqm			
8	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix	1.14	Cum			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
	plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)					
9	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	3.77	Cum			
10	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	6.49	Cum			
11	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	0.60	M.T			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
12	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete	10.25	Cum			
13	Providing and laying Cast in situ/Ready Mix cement concrete M-15 of trap/ granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as directed including steel centering, plywood/ steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	0.36	Cum			
14	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	0.20	Cum			
15	Providing and laying Cast in situ / Ready Mix cement concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C.slabs and landings as per detailed designs and drawings including steel centering,formwork,cover blocks,laying/pumping,compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc.complete,(Excluding reinforcement and structural steel).with fully automatic microprocessor based PLC with SCADA enabled	1.00	Cum			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
	reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)					
16	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	10.30	Cum			
17	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	11.56	Sqm			
19	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc.complete.	37.24	Sqm			
20	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	3.46	Sqm			
21	Providing and applying white-wash in two coats on old/new plastered or masonry surfaces and as bestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	52.26	Sqm			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
22	Providing and applying three coats of waterproof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	13.96	Sqm			
23	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical gear)	6.25	Sqm			
24	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain /obscured glass panes 5mm thick and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.	7.20	Sqm			
25	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.	16.15	Cum			
26	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.	4.22	Cum			
27	Providing stone/ rubble filling of trap/granite/quartzite gneiss stones for foundations including filling voids with sand/grit and compaction etc complete.	15.32	Cum			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
28	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	8.25	Cum			
29	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessaryrefilling with bitumen etc. complete.	74.18	Sqm			
30	Providing and fixing M.S.angle sill of 50 x 50 x 6mm as per details and drawing supported on necessary including fixing and fastening with ,painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.	0.29	M.T			
33	Providing and fixing 90cmx60 cm Marble plate engraving10cm.height letter,figures including painting the letters/figures with approved colour and shade complete	1.00	No.			
34	Conveying materials obtained from road cutting including all lifts,layingin layers of 20cm to 30cm. breaking clods,dressing to the required lines, curves,grades and section,watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m.to300m.inclusive from the site of excavation to the site of deposition as directed.	1.00	No.			
35	Providing expansion joints in R.C.C.framed structure (exterior Columns) with plain premoulded filler 25 mm thick and 3mm thick alluminium plate,hold fast,fixing T.W.battens on internal face,finishing etc. complete as directed.	0.78	Sqm			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
36	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc.	3.36	Cum			
37	Providing soling ( below footing)using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1.76	Cum			
39	Providing and fixing chicken mesh of 22 gauge, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	1.80	Rmt			
<b>B</b>	<b>S W -II :- PEB WORK (ABOVE PLINTH) -</b>					
	A) Structural Steel E-350					
1	Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splic plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases, supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all	0.63	M.T			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
	materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as Directed by Engineer Incharge Construction Manager.(The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required for the complete work).					
2	B)Structural Steel - Cold Formed Light gauged-					
	Cold Formed Light gauged-Supplying, fabricating and erecting of Cold Formed Light Gauge structural steel members conforming to IS:801/ IS:811 hot-dip galvanised to IS:4759 - 96 including cutting,welding or bolting, splice plates and packing plates, transporting, straightening,	0.40	M.T			
3	C) Sheeting					
	PPGL 0.5 mm thk -					
	Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.	1.92	MT			
4	D) Roof Assesories-					
	Supply & Fixing of 0.5 mm thk PPGL roof accessories as per drawing or as directed by engineer incharge-					
	CORNER FLASHING	34.32	RMT			
	Center Ridge	10.26	RMT			
	Gable flashing	34.32	RMT			
5	E) Roof Gutter -					
	Roof Gutter (Assumed Girth- 600 mm) PPG 0.5 mm Thk. Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends,all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts,nuts, washers etc., conforming to latest specification including straightening, cutting,welding, bending to shape, bolting etc.,complete and as directed as per engineer incharge / Construction Manager.	20.52	RMT			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
6	F) Downtake Pipe-					
	Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of spouts shall be arranged to suit the position of openings in the wall including necessary accessories for fixing the pipe and including all materials and labour charges etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager.	24.00	RMT			
7	G) Polycarbonate Sheet -					
	Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge	25.20	Sqm			
	<b>S. W -III :- ELECTRIFICATION</b>					
1	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 2.5 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	10.00	R,M			
2	Making trench in soft soil having 0.75 m depth and minimum 0.3 m width for laying provided cables up to voltage level of 1.1kV complete As per specification No. CW-EXN-CTR	8.00	R,M			
3	Making trench in Hard murum/Tar road having 0.75 m depth and minimum 0.3mtr width as per IS for laying provided cables up to voltage level 1.1Kv cable complete as per specification No. CW-EXN-CTR	2.00	R,M			
4	Supplying & erecting mains PVC unarmoured cable 1100Volt grade ISI mark 3 core / 2.5 sqmm stranded / solid copper complete erected on wall with duly painted G. I. Saddle @ 0.25 m C/C & rigidity grouted in the wall with the help of plated screw.	10.00	R.M			
5	Supplying & erecting weatherproof powder coated distribution board 4 way with 2 x 6/10 Amp S. P. M. C. B. with industrial two	2.00	Number			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
	pin plug socket 10 A and 3 pin plug top 10 A with top cover necessary connection etc complete with approved make.					
6	Providing point wiring for street light with PVC unarmoured cable 1100Volt grade ISI mark 3 core 1.5 sqmm stranded / solid copper erected on wall with G. I. Saddle duly painted @ 0,25 m C/C rigidly grouted in the wall with the help of plated screw including 4" x 4" M. S. box 2 way with epoxy painting & inside 10 amp Nylon connector strip for street light connection and flexible cable of 2 mtrs.for street light connection etc.complete as directed by Engineer - In -Charge.	2.00	Number			
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	2.00	Number			
8	Supplying and erecting integrated LED street light fitting 23 to 25W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 2300 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, Life class of 50,000 Hrs. at L70B50, including driver complete with 3Years warranty as per specification No FG-ODF/FLS2.	1.00	Number			
9	Supplying and erecting street light Wall bracket made from 25 mm. dia ' G.I. pipe 1.2 m. in total length complete as per specification no. FG-BKT/WB	1.00	Number			
10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results as per specification no. EA-EP	1.00	Number			
11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials testing and recording the results as per specification no. EA-EP	1.00	Number			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
12	Supplying, erecting & marking DPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number			
13	Supplying, erecting & marking SPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number			
14	Supplying and erecting GI sheet 1.6 mm (16 SWG) having zinc coating of 350 microns with galvanization process compliance to IS 2629:1985 to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	1.00	Sqm			
15	Supplying and erecting marine (Waterproof) plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc. complete with compliance to IS 720:2010	1.00	Sqm			
16	Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 12 ways /phase (36 poles), with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	2.00	Number			
17	Supplying and erecting ISI mark GI pipe 25 mm. dia. 'B' class at position with accessories complete as per specification no. CW-PLB/GP.	6.00	RMT			
18	Supplying and erecting ISI mark GI pipe 40 mm. dia. 'B' class at position with accessories complete as per specification no. CW-PLB/GP.	6.00	RMT			
19	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete.	12.00	RMT			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
20	Supplying & erecting 18 guage M.S. Box powder coated (4"x4") 3 way for mains connection.	6.00	Number			
21	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL	6.00	Number			
22	Supplying shockproof type hand lamp with lamp holder, bulb/ lamp 100 W guarded glass and 30 mtr. 3 core PVC flexible cord with hand shield type 3 pin 6 Amp. Plug top	2.00	Number			
23	Point wiring for independent plug in 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW	2.00	Number			
24	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6 m in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC	1.00	Number			
25	Supplying & erecting mains with 2 x 2.5 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping 20 mm on wall / ceiling	2.00	R.M			
26	Supplying & erecting main with 2 x 4.00 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping on wall / ceiling.	2.00	RM			
27	Supplying and erecting double pole switch surface type/ flush type 240V, 32A with indicator lamp & fuse as per specification no. SW-SWR/BDP	1.00	Number			
28	Supplying and erecting double pole metal clad switch with HC type fuse and neutral link 240V, 32A on iron / GI frame as per specification no. SW-SWR/MDP	4.00	Number			
29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22 / E27 base.	5.00	Number			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
30	Supplying and erecting T8 Fluorescent tube day light 1200mm, 36 W	4.00	Number			
31	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	2.00	Number			
32	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF	2.00	Number			
33	Supplying and fixing wire mesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The jali cover shall be made from good quality G.I. wire mesh size 25 x 25 (mm) and made up of 14 SWG G.I. wire with side / supporting MS strips of suitable size.	2.00	Number			
34	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size	2.00	Number			
35	Supplying and erecting street light Wall bracket made from 25 mm. dia ' G.I. pipe 1.2 m. in total length complete as per specification no. FG-BKT/WB	3.00	Number			
36	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame.	1.00	Number			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
37	Supplying, erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board.	1.00	Number			
	<b>S. W - IV :- ROYALTY</b>					
1	For Sand	87.37	Cum			
3	Rubble	31.11	Cum			
4	Murum	14.22	Cum			
	<b>S. W - V :- LAB TESTING</b>					
1	Cement					
	Std. Consistency , Fineness , Specific Gravity , Setting Time Initial & Final , Setting Time , compressive strength , Soundness	1.00	No			
2	Concrete M-10 grade					
	M-10 -concrete cube compressive strength (set of 3 cubes)	1.00	No			
3	Concrete M-20					
	Mix Design With all tests on basic material	1.00	No			
	Compressive Strength (set of 3 cubes)	1.00	No			
4	Metal-Water absorption ,specific gravity,impact value,crushing value	1.00	No			
	Metal- gradation	1.00	No			
	Metal- Combined flakiness & elongation of single meter	1.00	No			
5	Brick Crushing value,water absorption & Specific gravity	1.00	No			
6	Masonary Stone					
	crushing Value/Compressive Strength,Water Absorption Test,Specific Gravity	1.00	No			
7	TMT Steel Bar					
	Yield stress,Ultimate tensile stress,Elongation,Weight per running meter,Bent / rebend test (set of 3 bar)	1.00	No			
8	sand					
	Fineness modulus silt contest	1.00	No			
9	Murum in plinth					
	Murum- Plasicity index	1.00	No			
	Field density of compacted layer	1.00	No			

Sr No	Description of item	Quantity	Unit	Unit Rate in Rs. Inclusive of all duties, GST, Others Levies		Total Amount In Rs.
				In Figure	In words	
	Murum- Proctor test	1.00	No			
	Management Strategies and Implementation plan (MSIP) to manage the Environmental, social, health and Safety (ESHS) risks and ESHS code of Conduct	lumpsum				
	<b>Total Cost</b>					

Note: The total amount mentioned in the form-8 should be same as mentioned in the BOQ.

We agree to execute the works in accordance with the terms and conditions mentioned in the invitation for quotation document , approved drawings and technical specifications at a total fixed contract price of Rs...../- (amount in figures) (Rs. ....only amount in words).

Signature

Name of Authorized Signatory.....

Bidder's Office Seal

## **Management Strategies and Implementation Plan (MSIP) to manage the Environmental, Social, Health and Safety (ESHS) risks and ESHS Code of Conduct**

The policy goal, as a minimum, shall be to integrate environmental protection, forest and biodiversity conservation, pollution prevention, promote resource use efficiency, waste management, community health and safety measures and protection of cultural heritage sites during designing and execution of the civil works. It is also to promote gender equality, child protection, vulnerable people (including those with disabilities), sexual harassment, gender-based violence (GBV), sexual exploitation and abuse (SEA), HIV/AIDS awareness and prevention in the planning processes, programs, and various activities involved in the execution of the works.

The Bidder shall accordingly submit a comprehensive and concise Management Strategies and Implementation Plan (MSIP) to manage the Environmental, Social (including sexual exploitation and abuse (SEA) and gender-based violence (GBV), Health and Safety (ESHS) risks, and ESHS Code of Conduct.

The Plan shall include;

1. Management of construction debris (silt, oil, solid waste, wastewater, etc.) and traffic management plan to ensure safety of local communities and ecosystem from construction activities
2. Abatement plan for environmental pollution, re-vegetation of construction site and sensitization of workforce
3. Water resource protection plan to prevent contamination of drinking water;
4. Boundary marking and protection strategy to prevent depositing on private land and offsite adverse impacts;
5. Gender based violence and sexual exploitation and abuse (GBV/SEA) prevention and response action plan
6. Mobilization strategy
7. Worker's camp management plan including the process for mitigating construction related impacts on local community
8. Occupational health and safety plan of the workforce
9. Child Protection Plan
10. Capacity building/training Plan
11. HIV/AIDS awareness and prevention plan
12. Prevention and mitigation plan of COVID-19

The plan shall describe the actions, materials, equipment, management processes, including costs etc. that will be implemented by the Contractor, and its subcontractors.

The Bidder shall document and submit the Code of Conduct that will apply to its employees and subcontractors, to mitigate ESHS risks and to ensure compliance with its Environmental, Social, Health and Safety (ESHS) obligations under the contract.

In addition, the Bidder shall submit an outline of how this Code of Conduct will be implemented and availability of qualified and trained personnel to supervise and implement the action plan. This will include how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.

For details, please refer to the chapter no. 11 on the Construction Management Guideline and chapter no 14 on Labour Management Framework of the SMART project's Environment & Social Management Framework (ESMF) report. For accessing ESMF report,

please visit [https://www.smart-mh.org/cdn//2019/08/190818171526\\_405e\\_4be\\_8b9\\_d3ce2374fe29ce1561a62b.pdf](https://www.smart-mh.org/cdn//2019/08/190818171526_405e_4be_8b9_d3ce2374fe29ce1561a62b.pdf) and for EHS guideline visit <http://documents1.worldbank.org/curated/en/157871484635724258/pdf/112110-WP-Final-General-EHS-Guidelines.pdf>

**LETTER OF ACCEPTANCE  
CUM NOTICE TO PROCEED WITH THE WORK**

**(LETTER HEAD OF THE EMPLOYER)**

Dated: \_\_\_\_\_

To: \_\_\_\_\_ [Name and address of the Contractor]

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

This is to notify you that your quotation dated \_\_\_\_\_ for execution of the \_\_\_\_\_ for the contract price of Rupees \_\_\_\_\_ [amount in words and figures], is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of Rs. \_\_\_\_\_ (equivalent to 3% of the contract price) within 15 days of the receipt of the letter. The Performance Security in the form of Bank guarantee or a Bank draft in favour of .....(Employer) shall be valid until date 28 days after the date of issue of the Certificate of Completion i.e., up to \_\_\_\_\_. Failure to furnish the Performance Security will entail cancellation of the award of contract.

You have to submit detailed ESHS compliance plan within one week from the date of this letter of acceptance. Failure to submit the acceptable ESHS plan will entail cancellation of the award of contract.

You are also requested to sign the agreement form and proceed with the work not later than \_\_\_\_\_ - 1 - \_\_\_\_\_ under the instructions of the Engineer, \_\_\_\_\_ and ensure its completion within the contract period.

With the issuance of this acceptance letter and you're furnishing the Performance Security, contract for the above said work stands concluded.

Yours faithfully,

**Authorized Signature  
Name and title of Signatory**

**Draft Agreement form for  
ARTICLES OF AGREEMENT**

1. This deed of agreement is made in the form of agreement on \_\_\_\_\_ day \_\_\_\_\_ month \_\_\_\_\_ 20 \_\_, between the \_\_\_\_\_ (Employer) or his authorized representative (hereinafter referred to as the first party) and \_\_\_\_\_ (Name of the Contractor), S/O \_\_\_\_\_ resident of \_\_\_\_\_<sup>1</sup> (hereinafter referred to as the second party), to execute the work of construction of \_\_\_\_\_ (hereinafter referred to as works) on the following terms and conditions.

**2. Cost of the Contract**

The total cost of the works (hereinafter referred to as the “total cost”) is Rs. ....../- as per the final contract amount /amount reflected in final BOQ.

**3. Payments under the contract:**

Payments to the second party for the construction work will be released by the first party in the following manner: -

1 <sup>st</sup> R. A. Bill	25% of the total cost
2 <sup>nd</sup> R. A. Bill	20% of the total cost
3 <sup>rd</sup> R. A. Bill	20% of the total cost
4 <sup>th</sup> R. A. Bill	20% of the total cost
Final Work Completed as per Tender	15% of the total cost

**3.1 (Not Applicable)**

3.1 The Employer shall retain (Retention Money) 6% of the amount from each payment due to the Contractor subject to the maximum of 5% of final contract price. Half of the amount retained shall be repaid upon completion of the works, and other half shall be repaid when the Defects Liability Period has passed and the Engineer has certified that all Defects notified to the Contractor before the end of this period have been corrected. On completion<sup>2</sup> of the whole works the Contractor may substitute the balance retention money with an “on demand” Bank guarantee.

**3.3 Payments at each stage will be made by the first party:**

- (a) on the second party submitting an invoice for an equivalent amount;
- (b) on certification of the invoice (except for the first installment) by the engineer nominated by the first party with respect to quality of works in the format in Annexure - 1; and
- (c) upon proper and justified utilization of at least 50 % of the previous installment and 100 % of any prior installment.

**4. Notice by Contractor to Engineer**

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<sup>1</sup>In case of a firm insert ‘complete address of the firm’. In case of an individual contractor insert identification like ‘son of and resident of’ etc.

The second party, on the works reaching each stage of construction, shall issue a notice to the first party or the Engineer nominated by the first party [who is responsible for supervising the contractor, administering the contract, certifying payments due to the contractor, issuing and valuing variations to the contract, awarding extension of time etc.] to visit the site for certification of stage completion. Within 15 days of the receipt of such notice, the first party or the engineer nominated by it, will ensure issue of stage completion certificate after due verification.

**5. Completion time**

The works should be completed in 6 Month from the date of this Agreement. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both the parties.

**6.** If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period:

- a) The first party does not give access to the site or a part thereof by the agreed period.
- b) The first party orders a delay or does not issue completed drawings, specifications or instructions for execution of the work on time.
- c) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.
- d) Payments due to the second party are delayed without reason.
- e) Certification for stage completion of the work is delayed unreasonably.

**7.** Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ 0.05 % of the contract value of the work per day which will be deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 5 % of the contract amount.

**8. Duties and responsibilities of the first party**

**8.1** The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party<sup>3</sup>, for checking quality of material and construction to ensure that it is as per the norms.

**8.2** The first party shall supply 3 sets of drawings, specifications and guidelines to the second party for the proposed works.

**8.3** Possession of the site will be handed over to the second party within 10 days of signing of the agreement.

**8.4** The Engineer or such other person as may be authorized by the first party shall hold meeting once in a month where the second party or his representative at site will submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.

**8.5** The Engineer shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the Engineer's notice, the first party as well as the engineer nominated by it, may instruct stoppage or suspension of the construction. It shall thereupon be open to the first

party or the engineer to have the deviations rectified at the cost of the second party.

**8.6** The Engineer shall issue a Certificate of Completion of the Works on the request of the second party, and upon deciding that the whole of the Works is completed.

## **9. Duties and responsibilities of the second party**

**9.1** The second party shall:

- a) take up the works and arrange for its completion within the time period stipulated in clause 5;
- b) employ suitable skilled persons to carry out the works;
- c) regularly supervise and monitor the progress of work;
- d) abide by the technical suggestions/ direction of supervisory personnel including engineers etc. regarding building construction;
- e) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification;
- f) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation;
- g) keep the first party informed about the progress of work;
- h) correct the notified defects within the length of time specified by the Engineer;
- i) be responsible for all security and watch and ward arrangements at site till handing over of the works to the first party;
- j) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims from the start date to the end of defect liability period;
- k) pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law);
- l) abide by the regulatory authority conditions (if any) attached to any permits or approvals for the project; and the ESHS Management Strategies and Implementation Plan and ESHS Code of Conduct, if any prescribed by the Employer;
- m) abide by all labour enactments and rules made there under, regulations, notifications and by-laws of the State or Central Government or local authorities;
- n) abide by all enactments on environmental protection and rules made there under, regulations, notifications and by-laws of the State or Central Government, or local authorities;
- o) be responsible for the safety of all activities on the Site.

## **10. Variations / Extra Items**

The works shall be executed by the second party in accordance with the approved drawings and specifications. No variation in cost is acceptable. However, if the Engineer issues instructions for execution of extra items, the following procedure shall be followed:-

- a) The second party shall provide the Engineer with a quotation for carrying out the extra items when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request before the extra items are ordered.

- b) If the quotation given by the second party is unreasonable, the Engineer may order the extra items and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the extra items on the Contractor's costs.
- c) The second party shall not be entitled to additional payment for costs, which could have been avoided by giving early warning.

#### **11. Securities**

The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee.

#### **12. Termination**

12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.

12.2 Fundamental breaches of Contract include, but shall not be limited to the following:

- (a) the contractor stops work for 28 days and the stoppage has not been authorized by the Engineer;
- (b) the Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- (d) the Contractor does not maintain a security which is required;
- (e) the Contractor has engaged in Fraud and Corruption as defined in Section C, in competing for or in executing the Contract; and
- (f) the contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid

12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

#### **13. Payment upon Termination**

13.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.

13.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

#### **14. Dispute settlement**

If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Chief Engineer / Superintending Engineer, (not connected in part or whole with this Project in his service) to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

15. **Fraud and Corruption**

The World Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section C. In further pursuance of this policy, the Contractor shall permit and shall cause its sub-contractors, sub-consultants, service providers, suppliers, agents' personnel, to permit the Bank to inspect all accounts, records, and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

**Annexure I**

**Format of certificate**

Certified that the works up to ----- level in respect of construction of ----- at ----- have been executed in accordance with the approved drawings and technical specifications.

Signature  
Name & Designation  
(Official address)

Place:  
Date:

Office seal

## Annexure-2

### ESHS Compliance Plan

After finalization of a contractor, it is mandatory for the contractor to prepare and implement the Environment and Social Management Plan (ESMP). For Health and Safety of workers and community, the plan entailing the below aspects need to be prepared and implemented;

#### A) Social Management Plan:

1. **In case of labour influx**, (if labours are not available locally and to be outsourced from outside district/region/state) the basic residence facility (setting up of camps, provision of residence with all basic amenities) need to be provided. Due to labour influx, there may be risk of communicable disease, gender based violence among workers and community. Hence the plan to avoid/mitigate these factors also need to be prepared and implemented.
2. **At workplace** : The following provisions/measures need to be complied at workplace
  - The provision of clean drinking water, health and hygiene facilities, separate washrooms for male & female, first aid kit, child crèches for women etc.
  - Mechanism to restrict sexual harassment of women and child at construction site, mechanism to prevent child labour and bonded labour, etc.
  - For safety of workers, Safety equipment like provision of personal protection equipment (PPE) for workers, such as safety boots, helmets, masks, gloves, protective clothing, goggles, full-face eye shields, and ear protection, firefighting equipment need to be provided.
3. **Community Safety Measure:** For avoiding the accidents due to increase in traffic at local level, the plan regarding road transport and road traffic management i.e. to provide signs at strategic locations of the roads, install and maintain a display board at each important road intersection on the roads to be used during construction, display boards about information regarding construction works as well as vehicle movements and warning signs etc. .needs to be prepared and implemented.

- 8 -

#### B) Environmental Management Plan

##### I. Air Quality

Possible impacts during construction are dust emission due to activities such as excavation, leveling, movement of vehicles at construction site. Emission due to operation of construction machineries.

**Following mitigation measures should be adopted by the contractors;**

- 1) Construction materials shall be transported to the site in covered trucks, where necessary.
- 2) Land clearing for construction site will be kept at the absolute minimum practicable.
- 3) Layout should be designed to minimize the removal of soil and vegetation

- 4) Topsoil removed will be preserved for later reinstatement purposes by piling it within and along the boundary of the site.
- 5) Dust suppression systems (water spray) shall be put into service as per requirement at the construction site.
- 6) Fuel used for machineries shall be clean and with low Sulphur content.
- 7) Construction machineries used shall have a valid PUC certificate.
- 8) Construction workers shall be provided with clean fuel for cooking.
- 9) Reducing speed of vehicle on Water Bound Macadam (WBM) road within the construction site to 20 km/hr will reduce dust emission.
- 10) Vehicles used shall be Bharat Stage V or VI compliant as per the prevailing regulations.

## **II. Noise quality**

Noise quality shall be impacted due to operation of construction machineries. Mitigation measures should be adopted are as follows;

- 1) Provision of silencers to modulate the noise generated by machines
- 2) Provision of protective devices like ear muff/ plugs to the workers who will be working in the noise prone areas.
- 3) Acoustic enclosure to D.G set shall be provided if used.
- 4) Construction activity generating noise shall be limited to the day time

## **III. Water Use and Quality**

Following water conservation measures should be adopted;

- 1) Curing water shall be sprayed on to the concrete structures instead of free flow of water.
- 2) Concrete structures shall be covered with thick cloth/gunny bags to avoid water rebound and will ensure sustained and complete curing.
- 3) Following mitigation measures should be integrated in case of waste water generated from temporary labour tents or rainwater run-off from construction sites;
- 4) Sewage generated shall be treated in septic tank followed by soak pits.
- 5) Silt traps shall be provided prior to discharge of run-off from construction area into drains.
- 6) An oil trap shall be provided in the drainage line to prevent contamination by accidental spillage of oil and grease.
- 7) Washdown area shall be provided for cleaning of vehicle wheels and the waste water shall be drained properly. Here also a settling pit and baffled oil water separator shall be provided.

- 9 -

## **IV. Soil Quality**

Possible impacts on Soil Quality are due to generation of construction waste and municipal solid waste from workers camps.

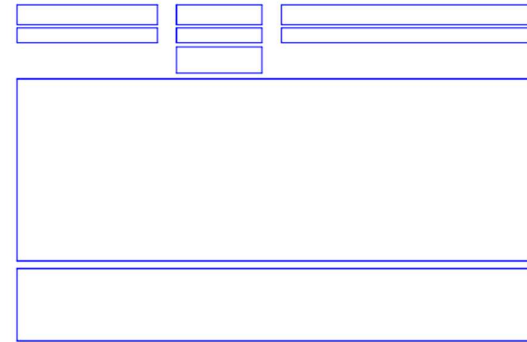
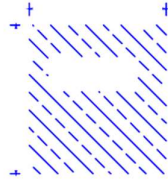
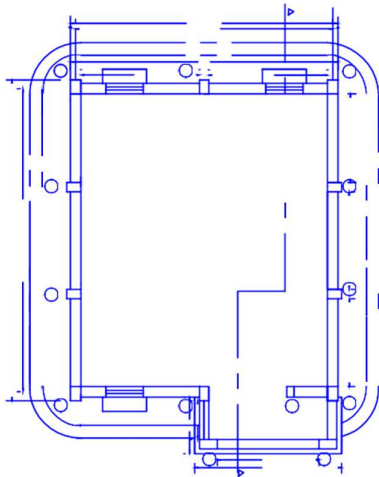
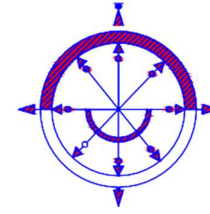
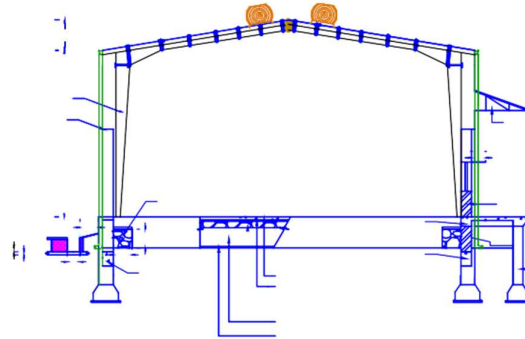
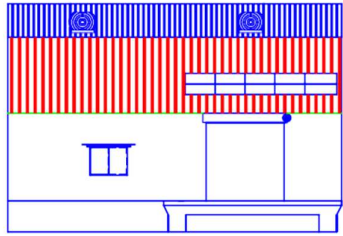
**Following mitigation measures should be followed;**

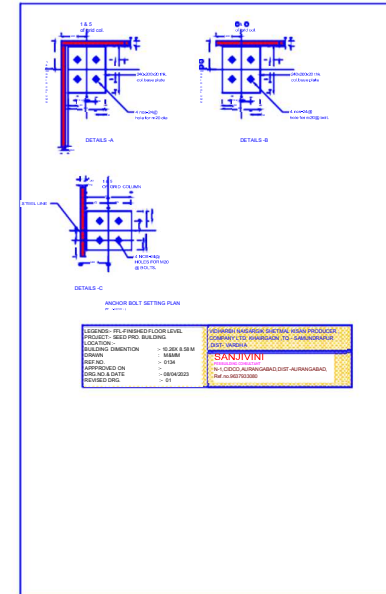
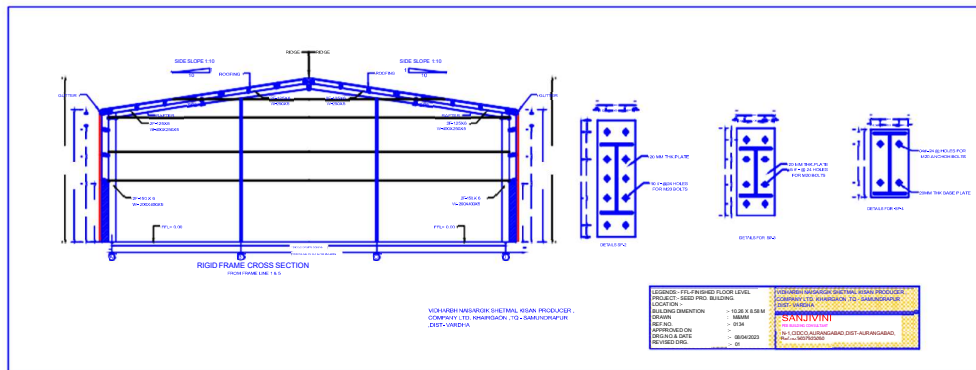
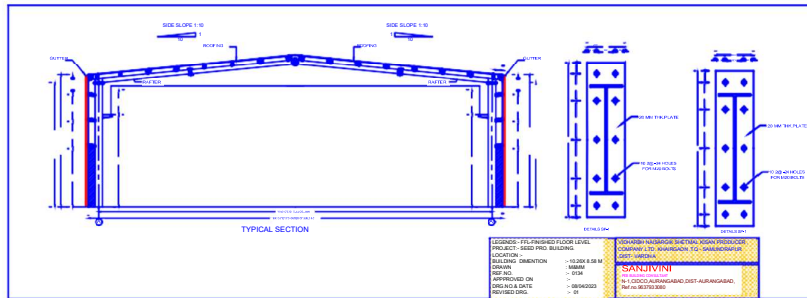
- 1) Construction waste generated shall be collected, segregated and disposed as per the Construction and Demolition Waste Rules 2016.
- 2) Municipal solid waste generated shall be disposed as per Solid Waste Management Rules 2016.
- 3) Used oil generated shall be collected and sold to authorized recyclers.

**V. Design Elements for energy efficiency:**

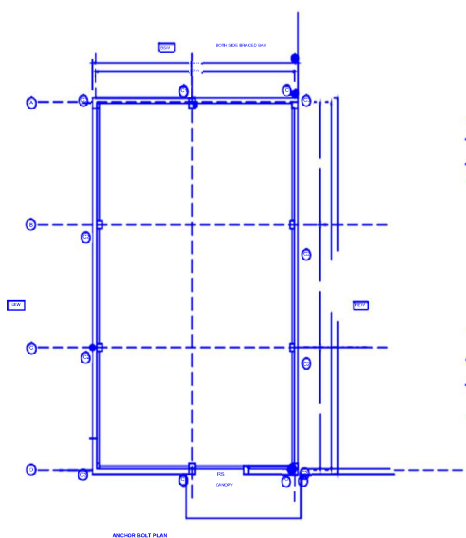
General measures that shall be adopted in the design for energy efficient and sustainable design of building for Warehouse, Cold Storages, etc. are as follows;

- 1) Building design shall utilize maximum natural daylight and rely minimum on artificial lighting.
- 2) Use low energy Light Emitting Diode (LED) lighting system to reduce their energy usage.
- 3) Waste management based on the concept of reduce, reuse and recycle shall be adopted to promote waste avoidance ahead of recycling and disposal.
- 4) Electrical / electronic equipment used in the facility shall be of 3 star and above rating.
- 5) Warehouse and Retails shall utilize solar energy for internal and external lighting to the extent possible.
- 6) Construction material to the extent possible shall be sourced locally to reduce carbon foot print.
- 7) Building material to the extent possible considering the design requirement shall utilize recyclable material such as fly ash bricks.
- 8) Refrigerator trucks shall be energy efficient and Bharat Stage VI and above compliant as per the prevailing norms.
- 9) Cold Storages and Retails shall use refrigerants that are environment friendly and non-ozone depleting and adhere to Ozone Depleting Substances (Regulation and Control) Rules, 2000 and its amendments.
- 10) HVAC (Heat Ventilation and Air Conditioning) system used shall be energy efficient.



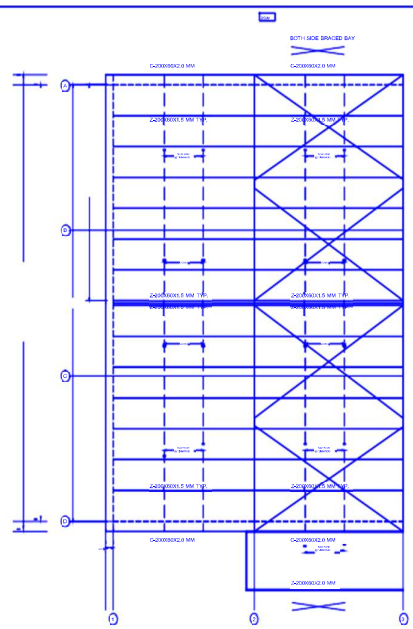






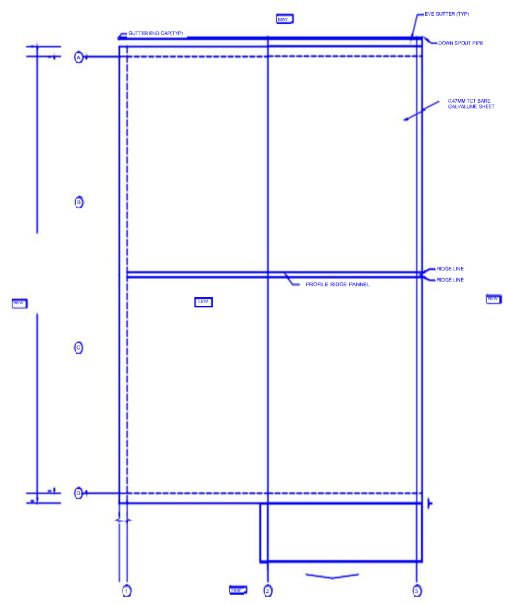
**ANCHOR BOLT PLAN (PFL) 10.00 X 8.00 M LVL**

<b>LEGEND:</b>	<b>REVISION:</b>
<ul style="list-style-type: none"> <li>PROJECT: SATEK PROJEK SATEK</li> <li>LOCATION: ...</li> <li>BUILDING DIMENSION: 10.00 X 8.00 M</li> <li>REF. NO.: MMAR</li> <li>APPROVED ON: 01/04</li> <li>DATE: ...</li> <li>BY: ...</li> </ul>	<ul style="list-style-type: none"> <li>NO. 0001</li> <li>NO. 0002</li> <li>NO. 0003</li> <li>NO. 0004</li> <li>NO. 0005</li> <li>NO. 0006</li> <li>NO. 0007</li> <li>NO. 0008</li> <li>NO. 0009</li> <li>NO. 0010</li> <li>NO. 0011</li> <li>NO. 0012</li> <li>NO. 0013</li> <li>NO. 0014</li> <li>NO. 0015</li> <li>NO. 0016</li> <li>NO. 0017</li> <li>NO. 0018</li> <li>NO. 0019</li> <li>NO. 0020</li> <li>NO. 0021</li> <li>NO. 0022</li> <li>NO. 0023</li> <li>NO. 0024</li> <li>NO. 0025</li> <li>NO. 0026</li> <li>NO. 0027</li> <li>NO. 0028</li> <li>NO. 0029</li> <li>NO. 0030</li> <li>NO. 0031</li> <li>NO. 0032</li> <li>NO. 0033</li> <li>NO. 0034</li> <li>NO. 0035</li> <li>NO. 0036</li> <li>NO. 0037</li> <li>NO. 0038</li> <li>NO. 0039</li> <li>NO. 0040</li> <li>NO. 0041</li> <li>NO. 0042</li> <li>NO. 0043</li> <li>NO. 0044</li> <li>NO. 0045</li> <li>NO. 0046</li> <li>NO. 0047</li> <li>NO. 0048</li> <li>NO. 0049</li> <li>NO. 0050</li> <li>NO. 0051</li> <li>NO. 0052</li> <li>NO. 0053</li> <li>NO. 0054</li> <li>NO. 0055</li> <li>NO. 0056</li> <li>NO. 0057</li> <li>NO. 0058</li> <li>NO. 0059</li> <li>NO. 0060</li> <li>NO. 0061</li> <li>NO. 0062</li> <li>NO. 0063</li> <li>NO. 0064</li> <li>NO. 0065</li> <li>NO. 0066</li> <li>NO. 0067</li> <li>NO. 0068</li> <li>NO. 0069</li> <li>NO. 0070</li> <li>NO. 0071</li> <li>NO. 0072</li> <li>NO. 0073</li> <li>NO. 0074</li> <li>NO. 0075</li> <li>NO. 0076</li> <li>NO. 0077</li> <li>NO. 0078</li> <li>NO. 0079</li> <li>NO. 0080</li> <li>NO. 0081</li> <li>NO. 0082</li> <li>NO. 0083</li> <li>NO. 0084</li> <li>NO. 0085</li> <li>NO. 0086</li> <li>NO. 0087</li> <li>NO. 0088</li> <li>NO. 0089</li> <li>NO. 0090</li> <li>NO. 0091</li> <li>NO. 0092</li> <li>NO. 0093</li> <li>NO. 0094</li> <li>NO. 0095</li> <li>NO. 0096</li> <li>NO. 0097</li> <li>NO. 0098</li> <li>NO. 0099</li> <li>NO. 0100</li> </ul>



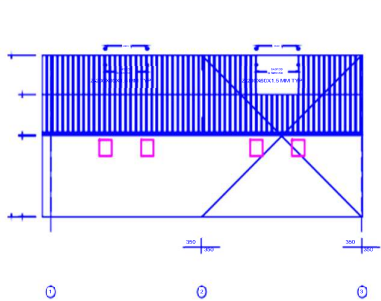
**ROOF FRAMING PLAN**

MEMORANDUM PERANGKIPAN STRUKTUR, NUSANTARA PROJEK, KOTA BANDA LAMPUNG, PROVINSI LAMPUNG

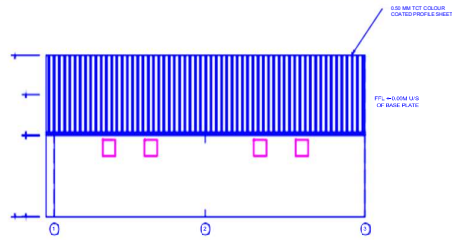


**ROOF SHEETING PLAN**

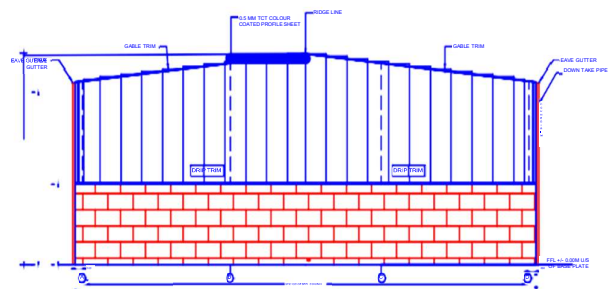
<b>LEGEND:</b> PROJECT: SATEK PROJEK SATEK LOCATION: ... BUILDING DIMENSION: 10.00 X 8.00 M REF. NO.: MMAR APPROVED ON: 01/04 DATE: ... BY: ...	<b>REVISION:</b> NO. 0001 NO. 0002 NO. 0003 NO. 0004 NO. 0005 NO. 0006 NO. 0007 NO. 0008 NO. 0009 NO. 0010 NO. 0011 NO. 0012 NO. 0013 NO. 0014 NO. 0015 NO. 0016 NO. 0017 NO. 0018 NO. 0019 NO. 0020 NO. 0021 NO. 0022 NO. 0023 NO. 0024 NO. 0025 NO. 0026 NO. 0027 NO. 0028 NO. 0029 NO. 0030 NO. 0031 NO. 0032 NO. 0033 NO. 0034 NO. 0035 NO. 0036 NO. 0037 NO. 0038 NO. 0039 NO. 0040 NO. 0041 NO. 0042 NO. 0043 NO. 0044 NO. 0045 NO. 0046 NO. 0047 NO. 0048 NO. 0049 NO. 0050 NO. 0051 NO. 0052 NO. 0053 NO. 0054 NO. 0055 NO. 0056 NO. 0057 NO. 0058 NO. 0059 NO. 0060 NO. 0061 NO. 0062 NO. 0063 NO. 0064 NO. 0065 NO. 0066 NO. 0067 NO. 0068 NO. 0069 NO. 0070 NO. 0071 NO. 0072 NO. 0073 NO. 0074 NO. 0075 NO. 0076 NO. 0077 NO. 0078 NO. 0079 NO. 0080 NO. 0081 NO. 0082 NO. 0083 NO. 0084 NO. 0085 NO. 0086 NO. 0087 NO. 0088 NO. 0089 NO. 0090 NO. 0091 NO. 0092 NO. 0093 NO. 0094 NO. 0095 NO. 0096 NO. 0097 NO. 0098 NO. 0099 NO. 0100	<b>MEMORANDUM PERANGKIPAN STRUKTUR, NUSANTARA PROJEK, KOTA BANDA LAMPUNG, PROVINSI LAMPUNG</b> <b>SANJIVINI</b> NO. 0001 NO. 0002 NO. 0003 NO. 0004 NO. 0005 NO. 0006 NO. 0007 NO. 0008 NO. 0009 NO. 0010 NO. 0011 NO. 0012 NO. 0013 NO. 0014 NO. 0015 NO. 0016 NO. 0017 NO. 0018 NO. 0019 NO. 0020 NO. 0021 NO. 0022 NO. 0023 NO. 0024 NO. 0025 NO. 0026 NO. 0027 NO. 0028 NO. 0029 NO. 0030 NO. 0031 NO. 0032 NO. 0033 NO. 0034 NO. 0035 NO. 0036 NO. 0037 NO. 0038 NO. 0039 NO. 0040 NO. 0041 NO. 0042 NO. 0043 NO. 0044 NO. 0045 NO. 0046 NO. 0047 NO. 0048 NO. 0049 NO. 0050 NO. 0051 NO. 0052 NO. 0053 NO. 0054 NO. 0055 NO. 0056 NO. 0057 NO. 0058 NO. 0059 NO. 0060 NO. 0061 NO. 0062 NO. 0063 NO. 0064 NO. 0065 NO. 0066 NO. 0067 NO. 0068 NO. 0069 NO. 0070 NO. 0071 NO. 0072 NO. 0073 NO. 0074 NO. 0075 NO. 0076 NO. 0077 NO. 0078 NO. 0079 NO. 0080 NO. 0081 NO. 0082 NO. 0083 NO. 0084 NO. 0085 NO. 0086 NO. 0087 NO. 0088 NO. 0089 NO. 0090 NO. 0091 NO. 0092 NO. 0093 NO. 0094 NO. 0095 NO. 0096 NO. 0097 NO. 0098 NO. 0099 NO. 0100
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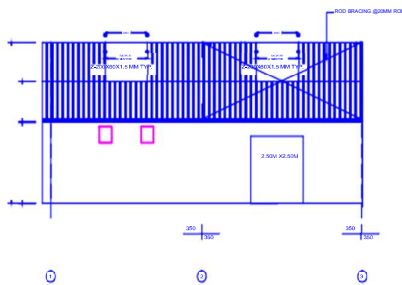
SIDEWALL FRAMING ELEVATION FOR FRAME LINE -A



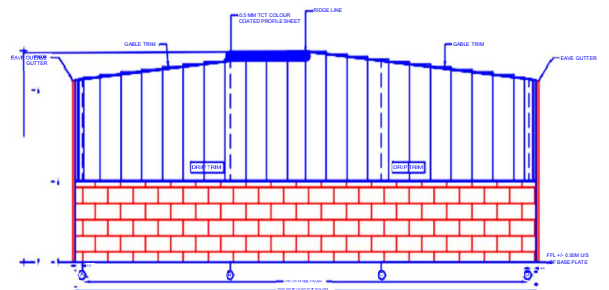
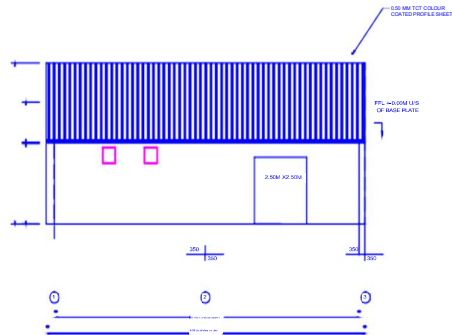
SIDEWALL SHEETING PLAN FOR FRAME LINE -A



ENDWALL SHEETING ELEVATION FOR FRAME LINE 1



SIDEWALL SHEETING PLAN FOR FRAME LINE -D



ENDWALL SHEETING ELEVATION FOR FRAME LINE 2

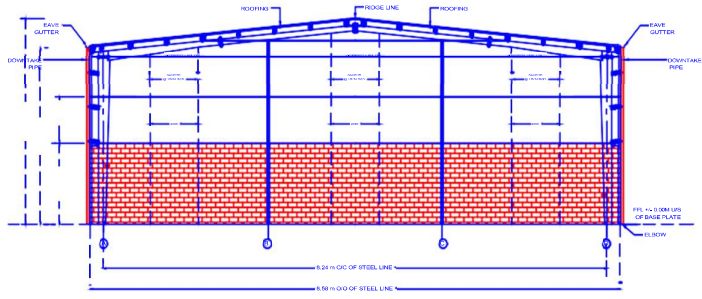
LEGEND - PFL IN RED FLOOR LEVEL PROJECT - BSEI PROJ. BUILDING	VENKATREDDY NARSARAO SHEETAL NSAN PRODUCER COMPANY LTD. KHARGON, TG - SAMUNDRAPUR DIST - VARDHA
LOCATION - BUILDING DIMENTION > 10.20X6.50M	SCALE - 1:100
DRAWN BY - MAM	DATE - 01/08/2023
APPROVED ON 08/08/2023	REVISED DWG. - 01

VENKATREDDY NARSARAO SHEETAL NSAN PRODUCER  
COMPANY LTD. KHARGON, TG - SAMUNDRAPUR  
DIST - VARDHA

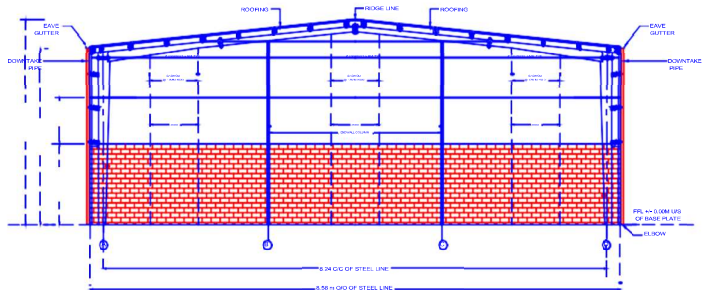
LEGEND - PFL IN RED FLOOR LEVEL PROJECT - BSEI PROJ. BUILDING	VENKATREDDY NARSARAO SHEETAL NSAN PRODUCER COMPANY LTD. KHARGON, TG - SAMUNDRAPUR DIST - VARDHA
LOCATION - BUILDING DIMENTION > 10.20 X 6.50 M	SCALE - 1:100
DRAWN BY - MAM	DATE - 01/08/2023
APPROVED ON 08/08/2023	REVISED DWG. - 01

VENKATREDDY NARSARAO SHEETAL NSAN PRODUCER  
COMPANY LTD. KHARGON, TG - SAMUNDRAPUR  
DIST - VARDHA

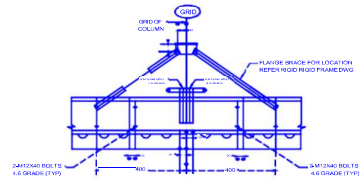




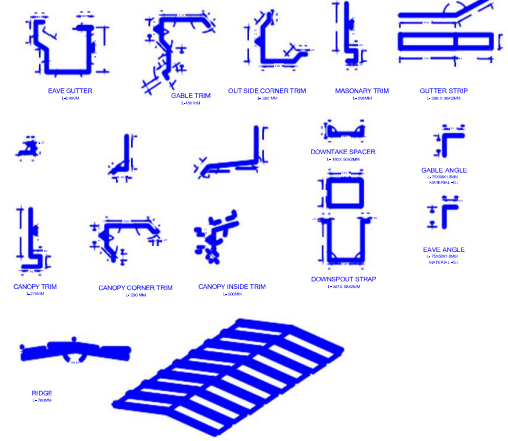
END WALL FRAMING ELEVATION  
FOR FRAME LINE 1



END WALL FRAMING ELEVATION  
FOR FRAME LINE 2



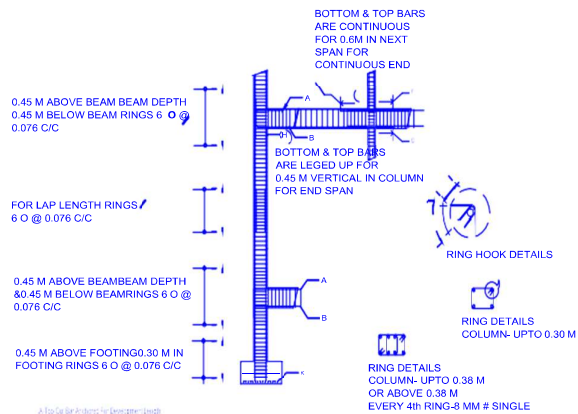
THE GRIP SHORT LAP DETAILS



VIJAYASHI NABARKIK SHEETAL HSN PRODUCER,  
COMPANY LTD. KHAIRGAON, TQ. SAMUNDRAPUR,  
DIST. VARDHA

LEGENDS - FINISHED FLOOR LEVEL	VIJAYASHI NABARKIK SHEETAL HSN PRODUCER,
PROJECT - SEED PRO. BUILDING	COMPANY LTD. KHAIRGAON, TQ. SAMUNDRAPUR,
LOCATION -	DIST. VARDHA
BUILDING DIMENTION	x 10.20 X 8.98M
DRAWN	1/3/24
REF. NO.	- 0134
APPROVED ON	17/03/2024
ORIGNO & DATE	- 06/04/2023
REVISED/NO.	- 01





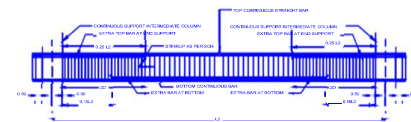
- 1) For Clear Height for Development Length
- 2) Within Ea Provided for Development Length
- 3) Covering Top Bar:  $16 \phi$  for Top Bar
- 4) For Top Bar:  $16 \phi$  for Top Bar
- 5) For Bottom Bar:  $16 \phi$  for Bottom Bar
- 6) For Lap Length:  $16 \phi$  for Lap Length
- 7) For Lap Length:  $16 \phi$  for Lap Length
- 8) For Lap Length:  $16 \phi$  for Lap Length
- 9) For Lap Length:  $16 \phi$  for Lap Length
- 10) For Lap Length:  $16 \phi$  for Lap Length
- 11) For Lap Length:  $16 \phi$  for Lap Length
- 12) For Lap Length:  $16 \phi$  for Lap Length
- 13) For Lap Length:  $16 \phi$  for Lap Length
- 14) For Lap Length:  $16 \phi$  for Lap Length
- 15) For Lap Length:  $16 \phi$  for Lap Length
- 16) For Lap Length:  $16 \phi$  for Lap Length
- 17) For Lap Length:  $16 \phi$  for Lap Length
- 18) For Lap Length:  $16 \phi$  for Lap Length
- 19) For Lap Length:  $16 \phi$  for Lap Length
- 20) For Lap Length:  $16 \phi$  for Lap Length

USE 53 GRADE ISI MARK CEMENT  
 1) RING BEAM AT GROUND LEVEL IS ESSENTIAL

**AWARENESS INFORMATION**  
 30 KG CEMENT BAG IS APPROX. 35 LIT IN VOLUME.  
 MINIMUM WATER IN CONCRETE IS 18% OF MAX. STRENGTH.  
 DO NOT USE COARSE SAND.  
 LESS WATER CEMENT RATIO MEANS MAX. STRENGTH.  
 R.C.C. DESIGN FOR - 8-ROUND-4  
 STRATA FOR FOUNDATION- HARD MURUP  
 SAFE BEARING CAPACITY to be taken by column 250 kN/m<sup>2</sup>

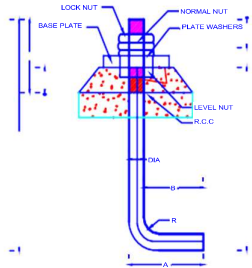
**INSTRUCTIONS FOR RCC WORK**

1. THESE INSTRUCTIONS APPLY FOR R.C.C. DRAWINGS & WORK
2. READ THE DRAWING IN CONJUNCTION WITH ARCHITECTURAL DRAWING FOR LEVELS AND LOCATION OF MEMBERS.
3. DRAWINGS ARE NOT TO BE REPRODUCED, COPIED, HANDED TO THIRD PARTY
4. FOR FOOTING, STAIRCASE, LOFT, PADALI, LINTEL, AND OTHER MEMBERS REFER SECTIONAL DETAILS PROVIDE ELSEWHERE.
5. DESIGN CONC. MIX M20 (1:1.5:3) IF NOT SPECIFIED SEPARATELY. STEEL I.S. GRADE TOR FOR DIAMETER ABOVE 8 MM & MILD STEEL FOR 6MM.
6. QUALITY MATERIAL AND STABILITY OF FORM WORK IS RESPONSIBILITY OF CONTRACTOR.
7. STEEL COVER: 50MM-FOOTING / 30MM-COLUMN / 25MM-BEAM / 10MM-SLAB
8. STANDARD LAP LENGTH:- 6MM-0.33M, 8MM-0.45M, 10MM-0.57M, 12MM-0.68M, 16MM-0.90M, 20MM-1.15M.
9. OVER LAPS NOT ALLOWED- AT MID SPAN FOR BOTTOM BARS & AT SUPPORT FOR TOP BAR
10. CANTILEVERS- TOP BARS ARE TO BE MAINTAINED AT TOP. CONTINUATION OF TOP BARS TO FOLLOWING SPAN SHALL BE FOR LENGTH EQUAL TO OVER HANG LENGTH OR 0.25 TIMES THE FOLLOWING SPAN, WHICHEVER IS GREATER
11. SLAB : BEND UP DIST. : L / 5 - SPAN CONTINUOUS, L / 7 SPAN NOT CONTINUOUS.
12. BEAMS: BOTTOM BAR SPANS FOR FULL LENGTH. / BOTTOM CUT BAR IS MID SPAN HALF LENGTH/TOP BAR SPANS FOR FULL LENGTH. / TOP CUT ARE ADDITION OF ADJACENT QUARTER SPANS. / RING L/4 MEANS FOR FULL CLOSE SPACED RINGS NEAR SUPPORT UPTO L/4/RING L/2 ARE RINGS AT CENTRE L / 2 OF SPAN BETWEEN SUPPORTS.
13. CHANGE IN DESIGN IS NOT PERMITTED.
14. TECHNICAL CHECKING IS ESSENTIAL PRIOR TO CONCRETING.
15. FOR ANY DOUBTS CONSULT THE DESIGNER AND DONT GUESS.
16. ACCURACY OF WORK IS BASE OF DESIGNS.
17. DESIGN IS FOR RESIDENTIAL LOADING UNLESS OTHERWISE SPECIFIED.



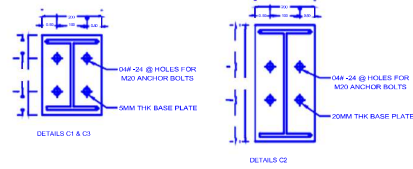
SCHEDULE OF BEAM									
NO.	C/C	SPAN	SUPPORT		SUPPORT		SUPPORT		DIA. IN CM
			TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
01	C/C-1	0.30 X 0.30	600	600	600	600	0.10M C/C	0.10M C/C	100
02	C/C-2	0.30 X 0.30	600	600	600	600	0.10M C/C	0.10M C/C	100
03	C/C-3	0.30 X 0.30	600	600	600	600	0.10M C/C	0.10M C/C	100

**NAME OF WORK / AGENCY:**  
**PLAN OF SEED PROCESSING UNIT, AT- KHAIRGAON, GUT. NO. .TQ - SAMUNDRAPUR, DIST-VARDHA, BELONGS TO -**  
**WIDHARBH NAISARGIKI SHETMAL KISAN PRODUCER COMPANY LTD. KHAIRGAON .TQ - SAMUNDRAPUR .DIST-VARDHA**

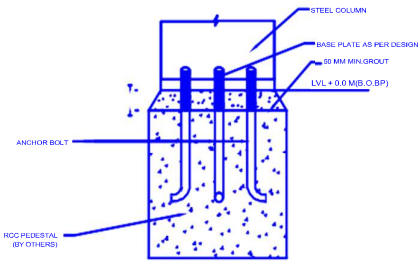
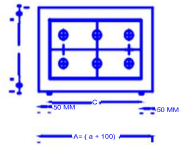
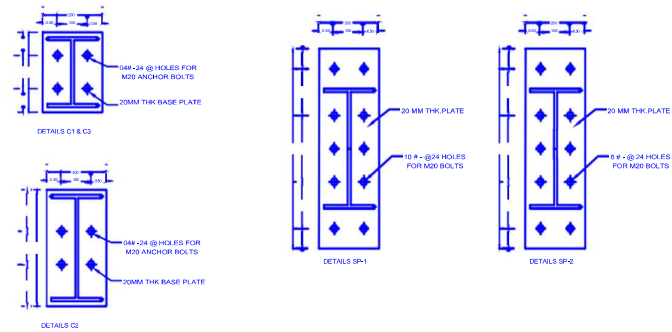
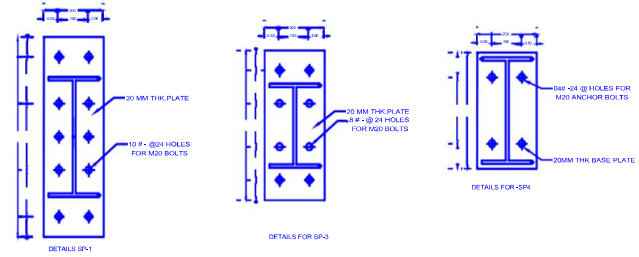


ANCHORED BOLT - Ø20

ANCHORED BOLT SCHEDULE							
QTY.	DIA.	L	A	B	C	D	RELE. MARK
06	20	750	100	75	500	25	AS 20



BILL OF MATERIAL						
SER. NO.	QTY.	DESCRIPTION	LENGTH	WIDTH	THICKNESS OR T.WT.	TOTAL WT.
01	10	TEMPLATE- A&B	200	200	3	0.84
02	04	TEMPLATE- C	200	200	3	0.80
TOTAL WEIGHT						29.83



SAMPLE DETAILS OF MINIMUM PEDESTAL REQ FOR PINNED BASE FOR ALL LEAN -TO COLUMN

NAME OF WORK / AGENCY:  
 PLAN OF SEED PROCESSING UNIT, AT- KHAIRGAON, GUT. NO. ,TQ - SAMUNDRAPUR, DIST-VARDHA,  
 BELONGS TO -  
 VIDHARSH NAI SARGIK SHETMAL KISAN PRODUCERCOMPANY LTD. KHAIRGAON ,TQ -  
 SAMUNDRAPUR ,DIST- VARDHA

LEGENDS - FFL-FINISHED FLOOR LEVEL	VIDHARSH NAI SARGIK SHETMAL KISAN PRODUCER
PROJECT - SEED PRO. BUILDING.	COMPANY LTD. KHAIRGAON, TQ - SAMUNDRAPUR
LOCATION -	08ST - VARDH - A
BUILDING DIMENTION	- 10.20 X 8.58 M
DRAWN	- M&MM
REF NO.	- 0134
APPROVED ON	-
DRG NO & DATE	- 08/04/2023
REVISED DRG	- 01

**SANJIVINI**

REG. BUILDING CONSULTANT  
 N-1 CIDCO AURANGABAD DIST-AURANGABAD,  
 Ref no. 263752/3050