# Bhagirathi

# The Bhagirathi Cooperative Milk Producers' Union Limited

### (A Govt. of West Bengal Project)

## NOTICE INVITING e-TENDER

**BU/MDO/RIDF/XXIX/(2023-24)/ 1148**                    **Dated:14/08/2024**

The Bhagirathi Cooperative Milk Producers' Union Limited invites E-tender in two bid system from reputed contractors having experience in execution of civil works for Construction of New Store Building at the Feeder Dairy campus of The Bhagirathi co-operative milk producres' union ltd. Berhampore, Murshidabad., Pin-742101

## IMPORTANT DATE AND TIME SCHEDULE

| Sl. No. | Particulars | Date & Time |
|---------|-------------|-------------|
| 1 | **Date of uploading NIT Online** | **14.08.2024 at 1400 hrs** |
| 2 | Documents download start date (Online) | 14.08.2024 at 1405 hrs |
| 3 | Technical Bid proposal submission start date (Online) | 14.08.2024 at 1410 hrs |
| 4 | **Bid Submission end date (Online)** | **28.08.2024 at 1400 hrs** |
| 5 | Technical bid opening date | 31.08.2024 at 1400 hrs |
| 6 | Pre bid Meeting | NIL |
| 7 | Financial Bid Opening date | To be notified later |

## The details of work are given below:

| | |
|---|---|
| **Nature of Work** | **Civil works for Construction of New store Building at Bhagirathi milk union campus(Feeder Dairy) Berhampore , Murshidabad., Pin-742101** |
| **Scope of Work** | **As per (Annexure – A)** |
| **Estimated Cost of Work** | **Rs. 46,32,971.00/- (Including all)** |
| **Bid Inviting Authority** | The Managing Director of The Bhagirathi Cooperative Milk Producers' Union Limited |
| **Earnest Money Deposit (EMD)** | **The EMD amounting to Rs. 92,660.00/- which is 2%** of the Estimated Cost of Work should be deposited online through Net Banking, NEFT/RTGS in favor of The Bhagirathi Cooperative Milk Producers' Union Limited payable at Berhampore.EMD shall not carry interest. <br><br> Tender will select the Tender to bid and initiate payment of pre-defined EMD for that tender by selecting from either of the following payments modes (vide Finance Department Memorandum no. 3975-F(Y) Dt. 28/07/2016): <br><br> 1. Net banking (any of the banks listed in the ICICI Bank Payment gateway) in case of paymentthrough IClCI Bank Payment Gateway. <br><br> 2. RTGS/NEFT in case of offline payment through bank accounts in any Bank. <br><br> **Payment procedure.** |

**a) Payment by Net Banking (any listed bank) through IClCI Bank Payment Gateway :**

1. On selection of net banking as the payment mode, the bidder will be directed to IClCI Bank Payment Gateway webpage (along with a string containing a Unique ID) where he will select the Bank through which he wants to do the transaction.

2. Bidder will make the payment after entering his Unique ID and password of the bank to process the transaction.

3. Bidder will receive a confirmation message regarding success/failure of the transaction.

1. If the transaction is successful, the amount paid by the bidder will get credited in the respective Pooling account of The Bhagirathi Cooperative Milk Producers' Union Limited maintained with the Focal Point Branch of IClCI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.

2. For transaction failure, the bidder will again try for payment by going back to the first step.

**b) Payment through RTGS/NEFT:**

1. On selection of RTGS/NEFT as the payment mode, the e-Procurement portal will show a pre-filled challan having the details to process RTGS/NEFT transaction.

2. The bidder will print the challan and use the pre-filled information to make RTGS/NEFT payment using his Bank account.

3. Once payment is made, the bidder Will come back to the e-Procurement portal after expiry of are as on able time to enable the NEFT/RTGS process to complete, in order to verify the payment made and continue the bidding process.

4. If verification is successful, the fund will get credited to the respective Pooling account of The Bhagirathi Cooperative Milk Producers' Union Limited maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road for collection of EMD/Tender Fees.
5. Hereafter, the bidder will go to e-Procurement portal for submission of his bid.

6. But if the payment verification is unsuccessful, the amount will be returned to the bidder's account.

**B. Refund/Settlement Process:**

i. After opening of the bids and technical evaluation of the same by the Quotation inviting authority through electronic processing in the e-Procurement portal of the State Government, the Quotation inviting authority will declare the status of the bids as successful or unsuccessful which will be made available, along with the details of the unsuccessful bidders, to IClCI Bank by the e-Procurement portal through web services.

| | |
|---|---|
| | ii. On receipt of the information from the e-Procurement portal, the Bank will refund, through an automated process, the EMD of the bidders disqualified at the technical evaluation to there spective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of bid is uploaded to the e-Procurement portal by the Tender inviting authority.<br><br>iii. Once the financial bid evaluation is electronically processed in the e Procurement portal, EMD of the technically qualified bidders other than that of the L1 and L2 bidders will be refunded, through an automated process, to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of financial bid is uploaded to the e-Procurement portal by the Quotation inviting authority. However, the L2 bidder should not be rejected till the LOI process is successful.<br><br>iv. If the L1 bidder accepts the LOI and the same is processed electronically in the e-Procurement portal, EMD of the L2 bidder will be refunded through an automated process, to his bank account from which he made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on Award of Contract (AOC) to the L1 bidder is uploaded to the e-Procurement portal by the tender inviting authority.<br><br>v. As soon as the Ll bidder is awarded the contract (AOC) and the same is processed electronically inthe e-Procurement portal –<br><br>a) EMD of the Ll bidder for tenders of State Government offices will automatically get transferred from the pooling account to the State Government deposit head "8443-00-103-001-07" through GRIPS along with the bank particulars of the Ll bidder.<br><br>b) EMD of the Ll bidder for tenders of the State PSUs/Autonomous Bodies/Local Bodies/PRIs, etc will automatically get transferred from the pooling account to their respective linked bank accounts along with the bank particulars of the L1 bidder. In both the above cases, such transfer will take place within T+1 Bank Working Days where T will mean the date on which the Award of Contract (AOC) is issued.<br><br>vi. The Bank will share the details of the GRN No. generated on successful entry in GRIPS with the E-Procurement portal for updation.<br><br>vii. Once the EMD of the Ll bidder is transferred in the manner mentioned above, Tender fees, if any, deposited by the bidders will be transferred electronically from the pooling account to the Government revenue receipt head "0070-60-800-013-27" through GRIPS for Government tenders and to the respective linked bank accounts for State PSU/Autonomous Body/Local Body/PRIs, etc tenders.<br><br>viii. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD & Tender Fees (if any) were initiated |
| **Bid Document** | The bid document is available in the E-Tendering Portal of Govt. of West Bengal https://wbtenders.gov.in . |

| | |
|---|---|
| **Statutory & Non Statutory Documents (Technical Bid)** | 1. GST Registration Certificate<br>2. KYC (AADHAR/VOTER CARD/DRIVING LICENSE/PASSPORT)<br>3. IT Return of last three years,<br>4. Pan Card, Trade License<br>5. **Credentials of execution of Constructional Building works at any Govt. / autonomous organization worth Rs. 20lakhs& above.**<br>6. *The signed copy of NIe-T & EMD in all pages shall be uploaded in NIe-T Folder and all the statutory documents mentioned above shall be uploaded in Technical Bid Folder. It is to be noted that no documents is needed to be sent physically. Bid not accompanied by the aforesaid documents shall not be accepted for evaluation.* |
| **Financial Bid** | Rate shall be quoted in the Financial bid. The bidder shall quote the rate online through Computer only in the space marked for quoting rate in the Bill of Quantities (BOQ). Only downloaded copies of the above documents, digitally signed by the bidder are to be uploaded (Excel file). |
| **Validity of Bid** | 365 days. |
| **Download of Tender** | 1. **Download of Tender**<br><br>Tender to be downloaded only from the e-Tendering portal of Govt. of West Bengal i.e. https://wbtenders.gov.in .The tender will be submitted in two bid system i.e. Technical bid & Financial bid only through online.<br><br>2. **Online Bid submission procedure**<br><br>i. **Registration of Bidders**: Agencies/Bidders who are interested in participating e-tenders will have to get enrolled & registered with the Government e-Procurement system. through logging on to https://wbtenders.gov.in<br><br>ii. **Digital Signature certificate (DSC)**: Each bidders is required to obtain a class-II or Class-III Digital Signature Certificate (DSC) having Signing and Encryption certificate for submission of tenders from the approved service provider of the National Information's Centre (NIC) on payment of requisite amount or any service provide as may be allowed by the Finance Department, Govt. of West Bengal.<br><br>iii. **Tender Download**: The bidders can search & download NIT & Tender Documents electronically from computer once he logs in to the e-Tendering portal https://wbtenders.gov.in using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.<br><br>iv. **Submission of Tenders**: General process of submission, Tenders are to be submitted through online to the stipulated website in two folders, (one is Technical Bid & the other is Financial Bid) before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded duly digitally signed. The documents will get encrypted (transformed into non readable formats). |
| **Award of Contract** | The bidder selected after evaluation of financial bid by the tender committee will be given Award of Contract, subject to fulfillment of Terms and Conditions provided in the tender. |
| **Publication of Tender** | 1. E-Procurement Portal Govt. of West Bengal (https://wbtenders.gov.in)<br><br>2. Website of the Milk Union (www.bhagirathimilk.com )<br><br>3. Office Notice Board |

# GENERAL TERMS AND CONDITIONS

1. A Non-refundable Tender fees of Rs. 1000.00/- has to be deposited & any conditional or incomplete Tender shall not be accepted.

2. The lowest successful Tender/bidder must commission the work within a period of 10 days from the date of issue and subsequent acceptance of Award of Contract (AOC) & Work Order (WO).

3. The rate quoted must be inclusive of all labour and material required for the Job. The Tender involves scope of supply and service. Any expenditure other than the quoted rate shall not be accepted.

4. No escalation in price / rate will be allowed on any ground and no claim in this regard shall be entertained.

5. EMD of the lowest successful bidder who has been awarded with the Contract shall be converted into Security deposit and shall be released after12 months successful completion of the Work duly approved by the Competent Authority. EMD of unsuccessful bidders shall be released within 1 month after the AOC has been awarded to the lowest bidder. EMD shall not carry any interest.

6. No mobilization advance shall be given for this contract at any cost. Similarly no bills shall be reimbursed on pro-rata basis.

7. The rate quoted by the Tender must be inclusive of all required materials in adherence to schedule of job as furnished in the Tender.

8. **Terms of Payment:**

   Payment will only be made in NEFT/RTGS after approval from Competent Authority. Three copies of invoices must be submitted for payment. The payment shall be released in two phases:

   1. **90% payment (after receiving RIDF fund by the West Bengal Govt.) shall be made within 60 days after successful completion of the job duly certified by the Departmental In-Charge and approved by Competent Authority.**

   2. **Remaining 10% payment shall be made after 12 months of successful completion of the job. This 10% shall serve as performance guarantee. In case the work is found to be faulty due to negligence or use of inferior quality material by the contractor which is found after release of 90% payment the performance guarantee shall be forfeited and the contractor shall straightaway be blacklisted for 3 years.**

9. Liquated damage: Liquidated damage of 0.5% per day of the total cost of the Tender awarded to the bidder shall be charged if there is any delay in completion or inception of the job subjected to a maximum of 10% and the cost shall be recovered from the Contractor by deducting from the bills.

10. If the tender has already been blacklisted by any Government/ Government Undertakings/ Co–operative societies, his tender will be rejected. In case information about such black listing comes to the knowledge of the Union after awarding of the tender, the contract will be terminated, liquidated damages levied, apart from taking penal action.

11. **EMD shall be forfeited if the lowest bidder fails to execute the job after getting Award of Contract or withdraws the bid.**

12. BCMPUL reserves the right to accept or reject any or all tender wholly / partly at any point of time without assigning any reason thereof.

13. Force Majeure: For any delay in job not attributable to the Contractor and the Milk Union shall be termed as Liquated damage such as war, lockouts, catastrophe or any act of God. No liquidated damage on account of the Contractor shall be deducted for this clause.

14. Successful bidder has to complete the work within 60 days after issuance of the work order.

15. For any disputes beaten the Milk Union and Contractor the decision of the Milk Union shall be the final and binding.

16. The tender must satisfy himself thoroughly about the spot and the requirement of the Union before submitting his tender.

17. The person signing the tender should be the Proprietor / Partner / Managing Director or any other person duly authorized to sign the tender document. In the latter case, authorization letter should be attached.

18. Lowest Bidder has to execute the Affidavit as per Annexure-I

19. The tender should read every page and understand the implications fully and offer the tender only if he could discharge the obligations set out in the tender document.

**Sd/-**
Managing Director
The Bhagirathi Cooperative
Milk Producers' Union Limited

Copy forwarded to:

1. E-Procurement Portal Govt. of West Bengal https://wbtenders.gov.in
2. Official Website of the Milk Union www.bhagirathimilkcom
3. Office Notice Board

<u>**AFFIDAVIT**</u>
**(To be furnished in a Twenty Rupees Non-Judicial Stamp Paper duly certified by Notary Public)**


1.  I/We the undersigned solemnly declare that all the statements made in the documents, records etc., attached with this application are true and correct to the best of my/our knowledge.

2.  I/We the undersigned do hereby certify that neither my/our firm/company nor any of its constituent partners have abandoned any work/works of similar nature and magnitude in India, in the past.

3.  I/We the undersigned do hereby certify that any of the contracts awarded to me/us has not been terminated rescinded, due to breach of contract on my/our part in the past.

4.  I/We the undersigned authorize (s) and request any bank / person / firm / corporation / Government Departments to furnish pertinent information deemed necessary and requested by The Bhagirathi Cooperative Milk Producers' Union Ltd. to verify the statement made by me/us or to assess my/our competence and general reputation.

5.  I/We the undersigned, understand(s) that further qualifying information / clarifications on the statement made by me / us may be requested by The Bhagirathi Cooperative Milk Producers' Union Ltd and agree(s) to furnish such information/clarification within SEVEN Days from the date of receipt of such request from The Bhagirathi Cooperative Milk Producers' Union Ltd.

6.  **I/We agreed to execute a formal Agreement embodying the terms & conditions of the said online tender and the General Terms & Conditions.**


   **Dated Signature of Applicant with Seal:**
   To be signed by the officer authorized by the Firm/Company to sign on behalf, the Firm/Company with company's seal)
   **Note:** In case of sole proprietary concern, affidavit should be signed only by the sole proprietor.

   (Title of the Officer)

   (Title of the firm/Company)

   (Date)

   The above named deponent has understood the contents well and solemnly and sincerely declared and affirmed by the deponent in my presence at…………………………………………and signed before me on this day of
   ………………………….. (Seal).

   **(Signature of the Notary Public)**

# ANNEXURE – I

# TOP SHEET

### Estimate for the construction of New Store Building at Bhagirathi Milk Union Campus, Berhampore, Panchanantala, Dist. Murshidabad

### (Ground Floor)

| | | | | |
|---|---|---|---|---|
| | | SUB TOTAL | = | Rs.33,56,220.00 Rs.3283291.00 |
| Add for sanitary @ 10% on | Rs.33,56,220.00 | | = | Rs.3,35,622.00 Rs. 328329.00 |
| Add for Electrification @ 5% on | Rs.33,56,220.00 | | = | Rs.1,67,811.00 Rs. 164165.00 |
| | | SUB TOTAL | = | Rs. 38,59,653.00 Rs. 3775785.00 |
| Add G.S.T. @ 18% on | Rs. 38,59,653.00 | | = | Rs 6,94,738.00 Rs. 679641.00 |
| | | SUB TOTAL | = | Rs. 45,54,391.00 Rs. 4455426.00 |
| Add Cess @ 1% on | Rs. 45,54,391.00 | | = | Rs. 45,544.00 Rs. 44554.00 |
| | | TOTAL | = | Rs. 45,99,935.00 Rs. 4499980.00 |
| Add Contingency @ 3% on | Rs. 45,54,391.00 | | = | Rs. 1,36,632.00 Rs. 133020.00 |
| | | Grand Total : | | Rs. 47,36,567.00 Rs. 4633000. |

# Estimate for the construction of New Store Building at Bhagirathi Milk Union Campus, Berhampore, Panchanantala, MSD
## (Ground Floor)

|  |  |  |  |  |
|---|---|---|---|---|
| COLUMN | 250 x 375 | = | 30 | NOS |
| 250 mm Brick Work |  | = | 130.15 | m |
| 125 mm Brick Work |  | = | 8.65 | m |

| Sl. | Description of Work | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|

## A.Civil Work on Ground floor

**1.** **Page- 1, Item-2 :** Earthwork in excavation of foundation trenches or drains, in all sorts of soil(including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spoils within a lead of 75m as directed. The item includes necessary trimming the sides of trenches, leveling, dressing & ramming the bottom, bailing out water as required complete.

Gr. Floor-

Footing

Column  30  X  1.50  X  1.500  X  ~~1.125~~ **1.50** = ~~75.94~~ **101.25** m³

Tie  1  X  138.80  X  0.250  X  0.375 = 13.01 m³

**114.26**  ~~88.95~~  m³   ~~88.950~~ m³  Rs.11,927.00  %m³  Rs ~~10,609.00~~ **13628.00**

**2** **Page- 2, Item-4(A) :** (A) Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity)

Gr. Floor-

Foundation -- 1/3rd  **114.26** X ~~88.95~~ = ~~29.65~~ **38.09** m3   ~~29.650~~ **38.09** m³  Rs.599.61  %m³  Rs ~~17,778.00~~ **22839.0**

**3** **Page-3, Item-5.b.ii** Earth work in filling in compound, tank, low land, ditches etc. with good earth, in layers not exceeding 150 mm. including breaking clods and consolidating the same by ramming and dressing complete. (Payment will be made on profile measurement before and after the work).(ii) With carried earth arranged by the contractor within a radius exceeding 3 km. but not exceeding 5 km. including the cost of carried earth.

1  X  13.575  X  35.800  X  0.600 = 291.591  m³

Reduce Wall

1  X  138.800  X  0.250  X  0.600 = -20.820  m³

= 270.771  m²   270.771 m³  Rs.41,958.00  %m³  Rs.1,13,610.00

**4** **Page-~~24~~, Item- ~~22.I.A.a~~ 4(a):** Cement concrete with graded stone ballast (20 mm size ~~excluding shuttering~~) In ground floor (A) [Pakur Variety]

i) In proportion ~~1:3:6~~ **1:2:4**

In Footing

Column  30  X  1.50  X  1.500  X  ~~0.075~~ **0.075** = 5.06  m³

In floor  1  X  13.58  X  35.800  X  0.100 = 48.60  m³

Reduce wall  1  X  138.80  X  0.250  X  0.100 = -3.47  m³

53.66  m³   53.660 m³  Rs ~~5,189.00~~ **4957.92** m³  Rs ~~2,78,442.00~~ **266042.**

**5** **Page-24, Item- 4.a:** Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement.if any. in ground floor as per relevant IS codes

a) Pakur Variety

In Footing

| | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | X | 1.50 | X | 1.500 | X | 0.100 | = | 6.75 m³ |

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 6.75 m³ | 6.750 m³ | Rs.5.187.07 | m³ | Rs.35,013.00 | |

**6**    **Page-15, Item- 8 :** Brick-work with 1st class bricks in cement morter ( 6:1) in Superstructure of

A. In foundation and upto Plinth

| | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 1 | X | 13.58 | X | 0.250 | X | 0.600 | = | 2.04 m³ |
| Less Column | 30 | X | 0.25 | X | 0.375 | X | 0.600 | = | -1.69 m³ |

1720,W

| | | | | |
| --- | --- | --- | --- | --- |
| 0.35 m³ | 0.349 m² | Rs.4.928.00 | m³ | Rs.1.719.00 |

B. In Superstructure: G.F  (1:6)

| | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 1 | X | 130.15 | X | 0.250 | X | 4.200 | = | 136.66 m³ |

Less D, D1, D2, Gate, V, Column, Beam & Nilten

| | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D | 2 | X | 1.200 | X | 0.250 | X | 2.400 | = | -1.44 m³ |
| D1 | 3 | X | 0.900 | X | 0.250 | X | 2.400 | = | -1.62 m³ |
| V | 4 | X | 0.600 | X | 0.250 | X | 0.600 | = | -0.36 m³ |
| Gate | 1 | X | 1.800 | X | 0.250 | X | 2.400 | = | -1.08 m³ |
| Linten 250 | 1 | X | 130.150 | X | 0.250 | X | 0.150 | | -4.88 m³ |
| linten 125 | 1 | X | 8.650 | X | 0.125 | X | 0.150 | | -0.16 m³ |
| Extra for door | 2 | X | 1.050 | X | 0.125 | X | 0.150 | | -0.04 m³ |
| Wall Bm. | 1 | X | 130.150 | X | 0.250 | X | 0.325 | | -10.57 m³ |

| | | | | |
| --- | --- | --- | --- | --- |
| 116.50 m³ | 116.500 m² | Rs.5,151.00 | m³ | Rs.6,00,092.00 |

**7**    **Page- 16, Item- 16  :** 125mm th Brick-work with 1st class bricks in cement morter ( 1:4)

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| | 1 | X | 3.70 | X | 2.400 | = | 8.88 m² |

Less  Ventilation

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D | 2 | X | 0.750 | X | 1.950 | = | -2.93 m² |

| | | | | |
| --- | --- | --- | --- | --- |
| 5.96 m² | 5.960 m² | Rs.677.00 | m² | Rs.4,035.00 |

**8**    **Page- 42, Item- 36.a :** Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)

(a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.

Ground Floor

Column

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | X | 1 | X | 1.250 | X | 4.700 | = 5.88 m² |

Tie

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | X | 2 | X | 138.800 | X | 0.300 | = 83.28 m² |

Lintel

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | X | 2 | X | 138.800 | X | 0.150 | = 41.64 m² |

extra Lintel for door

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | X | 2 | X | 1.050 | X | 0.150 | = 0.63 m² |

Toilet Roof

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | X | 1 | X | 3.700 | X | 1.500 | = 5.55 m² |

Wall beam

| | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | X | 2 | X | 13.575 | X | 0.450 | = 122.18 m² |

| | | | | | |
|---|---|---|---|---|---|
| | 3 X 2 X 35.800 X 0.450 = 96.66 m² | | | | |
| | **Roof** | | | | |
| | 1 X 1 X 13.575 X 35.800 = 485.99 m² | | | | |
| | 841.80 m² | 841.800 m² | Rs.330.00 | m² | Rs.2,77,794.00 |

**9**   **Page-26, Item- 10.i :** Ordinary cement concrete (Mix 1: 1.5 : 3) with graded stone chips ( 20 mm nominal size) excluding shuttering and reinforcement, if any as per IS 456-2000.

With stone chips of Pakur variety

Footing

| | | |
|---|---|---|
| Clo | 30 X 1 X 1.200 X 1.200 X 0.250 = | 10.80 m³ |
| | 30 X 1 X 0.850 X 0.750 X 0.350 = | 6.69 m³ |
| | 30 X 1 X 0.475 X 0.350 X 0.250 = | 1.25 m³ |
| | 30 X 1 X 0.375 X 0.250 X 0.225 = | 0.63 m³ |
| | 30 X 1 X 0.375 X 0.250 X 0.300 = | 0.84 m³ |
| | 30 X 1 X 0.375 X 0.250 X 3.725 = | 10.48 m³ |

Tie

1 X 1 X 138.800 X 0.250 X 0.300 = 10.41 m³

Lintel

| | |
|---|---|
| 1 X 1 X 130.150 X 0.250 X 0.150 = | 4.88 m³ |
| 1 X 1 X 8.650 X 0.125 X 0.150 = | 0.16 m³ |
| 1 X 2 X 1.050 X 0.125 X 0.150 = | 0.04 m³ |

Wall beam

| | |
|---|---|
| 10 X 1 X 13.575 X 0.250 X 0.325 = | 11.03 m³ |
| 3 X 1 X 35.800 X 0.250 X 0.325 = | 8.73 m³ |

Roof bottom

| | | | | | |
|---|---|---|---|---|---|
| 1 X 1 X 13.575 X 35.800 X 0.125 = 60.75 m³ | | | | | |
| 126.69 m³ | 126.690 m³ | Rs.~~5,738.37~~ *5515.08* | m³ | Rs.~~7,26,994.00~~ *698705.ω* | |

**10**   **Page-28, Item- 15.a(i)& b :** Reinforcement for reinfroced concrete work in all sorts of structures including distribution bars,stirrups ,binders etc. initial straighening and removal of loose rust ( if necessary), cutting to requisite length,hooking and binding to correct shape placing in proper position an binding with 16 guage black annealed wire in every intersection,complete as per drawing and direction.

Category of steel : Other than-TATA, Non-SAIL, Non-RINL

1.10%   of concrete volume

=   1.10%   x   126.69   m³

@   7.850   MT per m³ of conc.   =   ~~10.95~~ *10.94* MT

| | | | | |
|---|---|---|---|---|
| | *10.94* ~~10.950~~ MT | Rs.~~60,433.00~~ *60003.ω* MT | | Rs.~~6,61,741.00~~ *656433.ω* |

**11**   **Page-189, Item- 1.i. b, c, & ii.c :** Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints , including throating, nosing and drip course, scaffoiding / staging where necessary.

b) 20 mm thick plaster in cement-sand mortet (1:6)

Ground Floor Out Side

| | |
|---|---|
| 1 X 1 X 130.150 X 4.200 = | 546.63 m² |
| 1 X 1 X 8.650 X 2.400 = | 20.76 m² |

Less D, D1, D2, Gate, V

| | | |
|---|---|---|
| D | 2 X 1.200 X 2.400 = | -5.76 m² |
| D1 | 3 X 0.900 X 2.400 = | -6.48 m² |
| D2 | 2 X 0.750 X 2.400 = | -3.60 m² |
| Gate | 1 X 1.800 X 2.400 = | -4.32 m² |
| V | 4 X 0.600 X 0.600 = | -1.44 m² |

| | | | | |
|---|---|---|---|---|
| 545.79 m² | 545.790 m² | Rs.163.00 | m² | Rs.88,964.00 |

| Sl. | Description of Work | | | | | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|

c) 15 mm thick plaster in cement-sand mortet (1:6)

Ground Floor in Side

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Same quantity out Side plaster including | | | = | 545.79 m² | 545.790 m² | Rs.142.00 | m² | Rs.77,502.00 |

c) 10 mm thick plaster in cement-sand mortet (1:4)

Wall beam

| 10 | X | 1 | X | 13.575 | X | 0.900 | = | 122.18 | m² | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | X | 1 | X | 35.800 | X | 0.900 | = | 96.66 | m² | | | |
| Roof | | | | 13.810 | X | 11.640 | = | 160.75 | m² | | | |
| Toilet Roof | | | | 3.700 | X | 1.500 | X 2.000 = | 11.10 | m² | | | |
| | | | | | | | | 390.68 | m² | 390.683 sqm | Rs.127.00 m² | Rs.49,617.00 |

**12** **Page-114 Item-1(h)** : Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame

(h) Neam Wood

| D | 2 | X | 5.4 | X | 0.100 | X | 0.100 | = | 0.108 | m³ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D1 | 3 | X | 5.1 | X | 0.100 | X | 0.100 | = | 0.153 | m³ | | |
| D2 | 2 | X | 4.95 | X | 0.100 | X | 0.100 | = | 0.099 | m³ | | |
| | | | | | | | | | 0.360 | m³ | 0.360 m³ | Rs.53,057.00 m³ | Rs.19,101.00 |

**13** **Page-140 Item-4(A)** : Supplying, fitting and fixing M.S. clamps for door and window frame made of flat bent bar, end bifurcated with necessary screws etc. by cement concrete(1:2:4) as per direction. (Cost of concrete will be paid separately)

(a) 40mm X 6mm, 250mm Length

| D | 7 | X | 6 | | | = | 42 | nos | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 42 | nos | 42 Each | Rs.29.00 Each | Rs.1,218.00 |

**14** **Page-117, Item- 1ia:** Panel shutters of door and window, as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position but excluding the cost of hinge and other fittings

Gammar wood

| D | 2 | X | 1.00 | X | 2.300 | = | 4.60 | m² | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D1 | 3 | X | 7.00 | X | 2.300 | = | 48.30 | m² | | | |
| D2 | 2 | X | 5.50 | X | 2.300 | = | 25.30 | m² | | | |
| | | | | | | | 78.20 | m² | 78.200 m³ | Rs.2,789.00 m² | Rs.2,18,100.00 |

**15** **Page-140 Item-5(vii)** : Iron butt hinges of approved quality, fitted and fixed with steel screws, with ISI mark.

100mm. X 75mm. X 3.50mm.

| D | 7 | X | 6 | | = | 42 | nos | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 42 | nos | 42.000 Each | Rs.66.00 Each | Rs.2,772.00 |

**16** **Page-141 Item-8 b&c** : Iron socket bolt of approved quality fitted and fixed complete.

100mm long x 10mm dia bolt.

| W | 0 | X | 0 | | = | 0 | nos | 0.000 Each | Rs.40.00 Each | Rs.0.00 |
|---|---|---|---|---|---|---|---|---|---|---|

150mm long x 10mm dia bolt.

| D | 7 | X | 2 | | = | 14 | nos | 14.000 Each | Rs.63.00 Each | Rs.882.00 |
|---|---|---|---|---|---|---|---|---|---|---|

**17** **Page-141 Item-10(i)a** : Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with centre bolt and round fitting. (a) 200mm long

| Sl. | Description of Work | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|
| | D   7 X 1     = 7 nos | | 7.000 Each | Rs.134.00 | Each | Rs.938.00 |

**18**    **Page-104, Item-13(a) i** : M.S W.I Or mental grill of approved design joints continuously welded with M.S. W.I flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. Grill weighing 10 kg/Sq.M to 16kg/m2 .

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ven | 4 X 1 X 0.600 X 0.600 | = | 1.44 | $m^2$ | | | | |
| Gate | 1 X 1 X 1.800 X 2.400 | = | 4.32 | $m^2$ | | | | |
| | | | 5.76 | $m^2$ | | | | |
| | Weight @ 16kg/ sqm | | 92.16 | kg | | | | |

*(handwritten:* 92.16 Kg     98.88/kg *)*

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | 0.922 Qntl | Rs.9,888.00 | Qntl | Rs.9,113.00 |

**19**    **Page-200 ; Item-1. a:** Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.

Steel surface

| | | | | | | |
|---|---|---|---|---|---|---|
| Same quantity 18 nos including | 5.76 | | 5.760 $m^2$ | Rs.29.00 | $m^2$ | Rs.167.00 |

**20**    **Page-200 ; Item-1.b:** Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.

Door & Window

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D | 2 X 1.00 X 1.000 X 2.300 | = | 4.60 | $m^2$ | | | | |
| D1 | 3 X 0.70 X 1.000 X 2.300 | = | 4.83 | $m^2$ | | | | |
| D2 | 2 X 0.55 X 1.000 X 1.500 | = | 1.65 | $m^2$ | | | | |
| | | | 11.08 | $m^2$ | 11.080 $m^2$ | Rs.38.00 | $m^2$ | Rs 421.00 |

**21**    **Page-200; Item-2. a & b :** (A) Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface. if necessary : iv) Two coats (with any shade except white)

Steel surface

| | | | | | | |
|---|---|---|---|---|---|---|
| Same quantity 18 nos including | 5.76 | | 5.760 $m^2$ | Rs 77.00 | $m^2$ | Rs 444.00 |

Wooden surface

| | | | | | | |
|---|---|---|---|---|---|---|
| Same quantity 20 nos including | 11.08 | | 11.080 $m^2$ | Rs.78.00 | $m^2$ | Rs.864.00 |

**22**    **Page-192; Item-15** . Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc.
NOTE:Cement 0.152 cu.m per100 sq.m.

Ground floor
     Outter

| | | | | | | |
|---|---|---|---|---|---|---|
| | 2 | X 35.800 | X 0.600 | = | 42.960 | $m^2$ |
| | 2 | X 13.575 | X 0.600 | = | 16.290 | $m^2$ |
| Rerduce D.G | | | | | | |
| Gate | 1 | X 1.800 | X 0.600 | = | -1.080 | $m^2$ |
| D | 1 | X 1.200 | X 0.600 | = | -0.720 | $m^2$ |
| D1 | 3 | X 0.900 | X 0.600 | = | -1.620 | $m^2$ |
| Inner | | | | | | |
| Toilet | 1 | X 3.700 | X 4.300 | = | 3.700 | $m^2$ |
| Office | 1 | X 3.700 | X 8.525 | = | 3.700 | $m^2$ |
| Store room | 1 | X 13.075 | X 23.450 | = | 13.075 | $m^2$ |
| Store room | 1 | X 7.900 | X 6.350 | = | 7.900 | $m^2$ |
| Room | 1 | X 7.650 | X 6.475 | = | 7.650 | $m^2$ |
| Wall | 1 | X 31.350 | X 0.600 | = | 31.350 | $m^2$ |
| | 1 | X 6.350 | X 0.600 | = | 6.350 | $m^2$ |
| | 1 | X 7.900 | X 0.600 | = | 7.900 | $m^2$ |
| | 1 | X 6.725 | X 23.450 | = | 6.725 | $m^2$ |
| | 2 | X 7.650 | X 0.600 | = | 15.300 | $m^2$ |

| Sl. | Description of Work | | | | | | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | X | 6.475 | X | 0.600 | = | 12.950 | m² | | | | |
| | 1 | X | 23.450 | X | 0.600 | = | 23.450 | m² | | | | |
| | 1 | X | 13.075 | X | 0.600 | = | 13.075 | m² | | | | |
| | 4 | X | 3.700 | X | 0.600 | = | 14.800 | m² | | | | |
| | 2 | X | 8.250 | X | 0.600 | = | 16.500 | m² | | | | |
| | 2 | X | 4.300 | X | 0.600 | = | 8.600 | m² | | | | |
| | 2 | X | 8.650 | X | 0.600 | = | 17.300 | m² | | | | |
| Rerduce D,G | | | | | | | | | | | | |
| Gate | 1 | X | 1.800 | X | 0.600 | = | -1.080 | m² | | | | |
| D | 2 | X | 1.200 | X | 0.600 | = | -1.440 | m² | | | | |
| D1 | 3 | X | 0.900 | X | 0.600 | = | -1.620 | m² | | | | |
| D2 | 2 | X | 0.750 | X | 0.600 | = | -0.900 | m² | | | | |
| | | | Total | | | = | 261.115 | m² | 261.115 m² | Rs.34.00 | m² | Rs.8.878.00 |

**23** **Page-195 : Item-7 :** Applying Interior grade Acrylic Primer of approved quality and brand on plastered or cencrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC. (In Ground Floor)

(a) One Coat

| | | | | | | | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Same quantity plaster including | | | | | | = | 1482.26 | m² | 1482.263 m² | Rs.3.080.00 | %m² | Rs.45.654.00 |

**24** **Page-196 : Item-10:** Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothning of surface.

Two Coats

| | | | | | | | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Same quantity plaster including | | | | | | = | 1482.26 | m² | 1482.263 m² | Rs.70.00 | m² | Rs.1.03.758.00 |

**Rectangular column**
(250x375) 6- 16mmØ

8mmØ @ 0.15m c/c

P.L.                    P.L.

8mmØ @ 0.15m c/c

G.L.                    G.L.

Tie beam

(0.25m x 0.300m)
R.C.C. Tie beam

12mmØ @ 0.15m
c/c both way

(1:2:4) R.C.C
75  100 THICK

(1:3:6) 75 TH. P.C.C.

600

300

225

250

350

250

100

1500

## R.C.C. COLUMN PLAN DETAILS
(SCALE 1: 25)

12mmØ @ 0.15m
c/c both way

6-16mmØ

1500

1500

## R.C.C. COLUMN FOOTING DETAILS
(SCALE 1: 25)

125

125mm thick Slab

Roof Beam
(450x250)

325

150mm thick
Linten(1:1.5:3)

250mm thick
Brick Work(1:6)

4200

2400

P.L.                    P.L.

600

G.L.                    G.L.

Tie beam

(250 x 250)
R.C.C. Tie beam

300

## SECTION OF BUILDING WALL
(SCALE 1: 25)

GT = 1800 x 2100
D = 1200 x 2100
D1 = 900 x 2100
D2 = 750 x 2100
V = 600 x 600

TOTAL COLUMN NO.S 30
ALL COLUMN SIZE - 250 x 375

ALL TIE BEAM SIZE - 250 MM & THICKNESS- 300 MM

## STORE BUILDING PLAN

TOILET 3700 x 4300

GATE

OFFICE 3700 x 8525

STORE ROOM

ROOM 7650 x 6475

LATRINE 1500 x 1350
LATRINE 1500 x 1350
BASIN

URINAL 900 x 900
URINAL 900 x 900
URINAL 900 x 900

35800

3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700

6350
13575
6350

7650
6475
6475

D2
D1
D

## TIE BEAM FOUNDATION

35800

3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700

4300
1800
6475

6350
13575
6475

## SECTION

600
4325
2400

325
4200 | 125

## ELEVATION

## SEPTIC TANK

PLAN

900
4650
1602

LONG. SECTION

150x150 Holes
3 Nos.

250
2475
1550
125
300
1500

SOAK WELL

150x150 Holes
3 Nos.
500mm dia Manhole Cover