

**Inviting Bids from eligible Firms/Contractors/Agencies/Individual for Civil &
Structural works for Godown inside WAMUL**

INVITATION FOR BID (IFB)



Purabi



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The West Assam Milk Producers' Co-operative Union Ltd.

PURABI DAIRY

INVITATION FOR BID

WAMUL/Admin/Stores/2023-2024/01

Dated: 05-06-2023

Sub: Inviting Bids from eligible Firms/Contractors/Agencies/Individual for Civil & Structural works for Godown inside WAMUL

West Assam Milk Producers' Cooperative Limited (WAMUL) is pleased to invite eligible Firms/Contractors /Agencies/Individual for construction of Various Civil and Structural Works Godown inside WAMUL as details mentioned below:

Sl No.	Brief Description of works	Technical Speciation (along with Drawing)and BOQ	Location	Completion Time
1	Civil & Structural Works for Godown inside WAMUL	Attached Annexure- 1	Purabi Dairy Panjabari, Kamrup Metro-781037	180 days from the date of issue of Work Order

Schedule of bidding:

The bidding shall be done on the basis of two envelopes (technical and financial envelopes), single stage tendering process and shall be having the following timelines:

Sl. No.	Particulars	Date	Time
1.	Commencement of bid publishing of Tender	05-06-2023	-
2.	Last date of submission of technical and financial bids	26-06-2023	12.00 HRS
3.	Date of technical bid opening	26-06-2023	12.30 HRS

Terms and Conditions

1. Eligibility criteria of the bidder

The Bidder shall have successfully executed/completed contracts of preferably similar nature of work** during last five years ending last day of the month previous to the month in which bid is opened, either of the following:

- One contract/work of preferably similar nature costing not less than INR. 83 Lakhs
- OR

R.K. Jyoti Prasad Agarwala Road, Panjabari, Guwahati- 781 037

E-mail: purabimilk@gmail.com • Website: www.purabi.org, GST No. 18AAAJW0070G1Z6

Two contracts/works of preferably similar nature each costing not less than INR. 52 Lakhs

OR

Three contracts/works of preferably similar nature each costing not less than INR. 41 Lakhs

- ii. The average annual financial turnover should not be less than INR. 1 crore in the last 3 financial years (FY 2019-2020, 2020-2021 & 2021-2022)
(Relevant Documents: CA certificate copy having valid UDIN No. or audited balance sheets of last 3 FY as mentioned)
- iii. Valid GST No., PAN No., Address Proof & Cancelled Cheque.

Notes:

** Civil & Structural works for RCC framed or Load bearing structure/RCC Roads/Paver block Roads/Bitumen Road / Industrial buildings of Dairy Plant/MS Roofing shed/ Food & Beverage / Pharma / Chemical / Hospital / Electronics / Frozen semen station having clean room laboratory/ bio containment laboratory/ University/ Educational Institute.

Bidders shall submit the following details to support their claim for meeting the minimum eligibility requirement:

- a) Name / Names of project to be considered for meeting minimum eligibility criteria.
- b) Nature of each project / work completed.
- c) Value of work of each project / work completed.

Location of execution of each project/work completed. The copy of purchase order/ work order, completion certificate and abstract sheet of final bill/ invoice showing the cumulative value of work done should be submitted in order to support aforesaid details. In case, the final bill/invoice, does not contain cumulative value of work done, copy of all the bills/ invoices submitted prior to the final bill should be attached.

2. Earnest Money Deposit: The Bidders shall submit EMD amounting to Rs.80,000/- in the form of Bank Draft in in favor of "West Assam Milk Producers Cooperative Union Limited" Payable at Guwahati. If the bidder is not earnest about the bid, then the bid security is liable to be forfeited.

3. Performance Security: The successful bidder shall furnish to the WAMUL a performance security of 5% of the contract value in the form of Bank Guarantee or a Bank Draft from any Nationalized/Scheduled Bank in favor of "West Assam Milk Producers Cooperative Union Limited", Payable at Guwahati within 30 days after the issue of Work and shall be valid for one year from the date completion of work. The Performance Security furnished by the successful bidder will be retained by the office up to 60 days after expiry of Performance Obligation Period/PBG. The PBG held by the office till it is returned to the successful bidder will not earn any interest.

4. Work Completion time: within 180 days from the issue of work order.

5. Payment terms:

The payment will be made on the basis of total 4 (four) nos. of running accounts (RA) bills.

The 1st RA bill payment will be made 25% after completing the 30 % of the entire work. The 2nd RA bill payment will be made 25% after completing the 60 % of the entire work. The 3rd

RA bill payment will be made 25% after completing the 90 % of the entire work. The 4th and final RA bill will be made after completion of the entire work. The payment will be made as per actual measurement subject to bill certification by competent authority of WAMUL. However, overall value of work executed shall not vary by more than 20%.

6. Validity of the Bids: Bids must be valid for 120 days from the due date of Submission. 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.

7. Liquidated Damages: If the bidder fails to deliver any or all the goods or perform the services within the time period(s) specified in the purchase order/contract, the WAMUL shall, without prejudice to its other remedies under the purchase order/contract, deduct from the purchase order/contract price, as liquidated damages, a sum equivalent to the following clauses which is applicable as per Order.

b) 0.5% of the delayed items for each completed week of delay.

The total amount so deducted shall not exceed 10% of the purchase order/contract value. Once the maximum is reached, the WAMUL may consider cancellation/termination of purchase order/contract, and forfeiture of performance/ deposit bond

8. Price Bid

8.1. The Prices shall be quoted in Indian Rupees only.

8.2. Each bidder shall submit only one Bid. Bidder shall not contact other Bidders in matters relating to this Bids

8.3. Documents: *The Bids shall comprise two Parts, namely the Technical Part and the Financial Part. Both Parts shall be submitted simultaneously in a single cover.*

i) The Technical Part of Bids shall comprise the following:

a) Letter of Bids – Technical Part Comprises of all relevant documents as mentioned at point 1 of eligibility criteria of the bidder.

b) Complete address and contact details of the Bidder having the following information:

Name of Firm

Address for communication

Telephone No(s): Office

Mobile No.

Electronic Mail Identification (E-mail ID)

ii. The Financial Part of Bids shall comprise the following:

(a) Price Schedule as per specified format (BOQ) Attached Annexure-1

9. Evaluation and Award of Contract:

9.1. The Purchaser will evaluate on overall basis and compare the Bids of the responsive bidders only to be responsive i.e. which are properly signed; and Conform to the terms and conditions, and specifications

9.2. **The Bids would be evaluated for complete set/works to be executed under this RFB**

9.3. GST, charges in connection with the services shall be taken into account in evaluation.

9.4. The Purchaser will award the contract to the bidder whose Bids has been determined to be responsive and who has offered the lowest evaluated Bids price.

9.5. Notwithstanding the above, the Purchaser reserves the right to accept or reject any Bids and to cancel the bidding process and reject all Bids at any time prior to the award of contract.

9.7. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the Bids validity period. The terms of the accepted offer shall be incorporated in the supply order.

10. Cancellation of Contract: WAMUL shall be free to cancel the order either in full or in part, in the case of non-delivery/ non-completion of execution within the stipulated completion period.

11. Rejection: WAMUL reserves the right to reject the goods either in part or full if at the time of delivery, it is noticed that the services provided do not conform to the specifications/description given in the purchase order

12. For any dispute/legal issues, the jurisdiction is at Guwahati Only.

Bids can be submitted in person on or before the due date and time specified above. Such Bids should be dropped in the tender box only kept at the Office of the "West Assam Milk Producers Cooperative Union Limited, Juripar Panjabari-Guwahati-781037"

Alternatively, the bidder can submit the Bids by registered post so as to reach the above address on or before the due date and time specified above. Bids received after due date and time will not be considered and WAMUL shall not be liable or responsible for any postal delays.

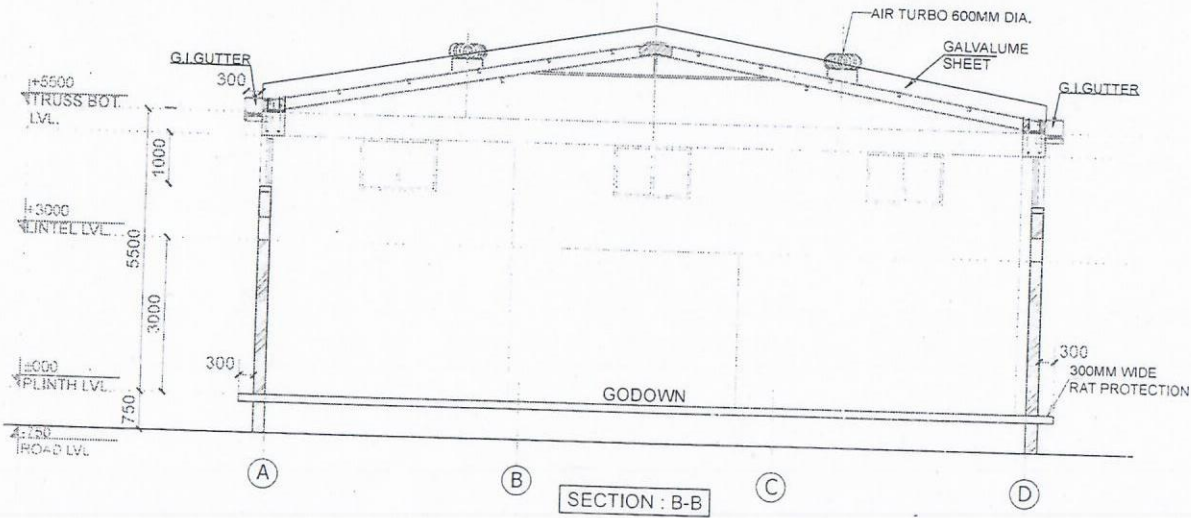
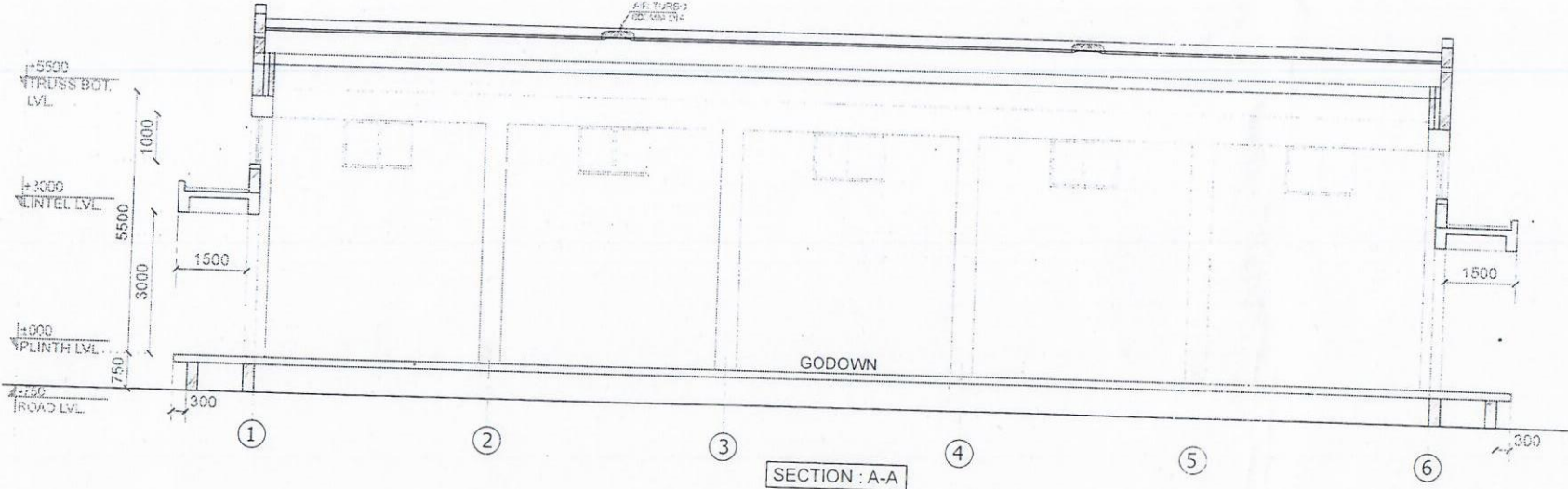
The completed RFB document duly signed on all the scanned signed pages by WAMUL should be submitted by the bidder along with the offer letter.



13. The bidder should submit the bids (technical bid along with all the required supporting documents and the financial bid in the designated format mentioned in Annexure-I) in two (02) separately sealed envelopes and then insert them in a single large envelope duly sealed and shall address to on or before last date of submission of bid:


Managing Director

West Assam Milk Producers' Cooperative Union Limited (Purabi Dairy), Guwahati-781037, Assam.

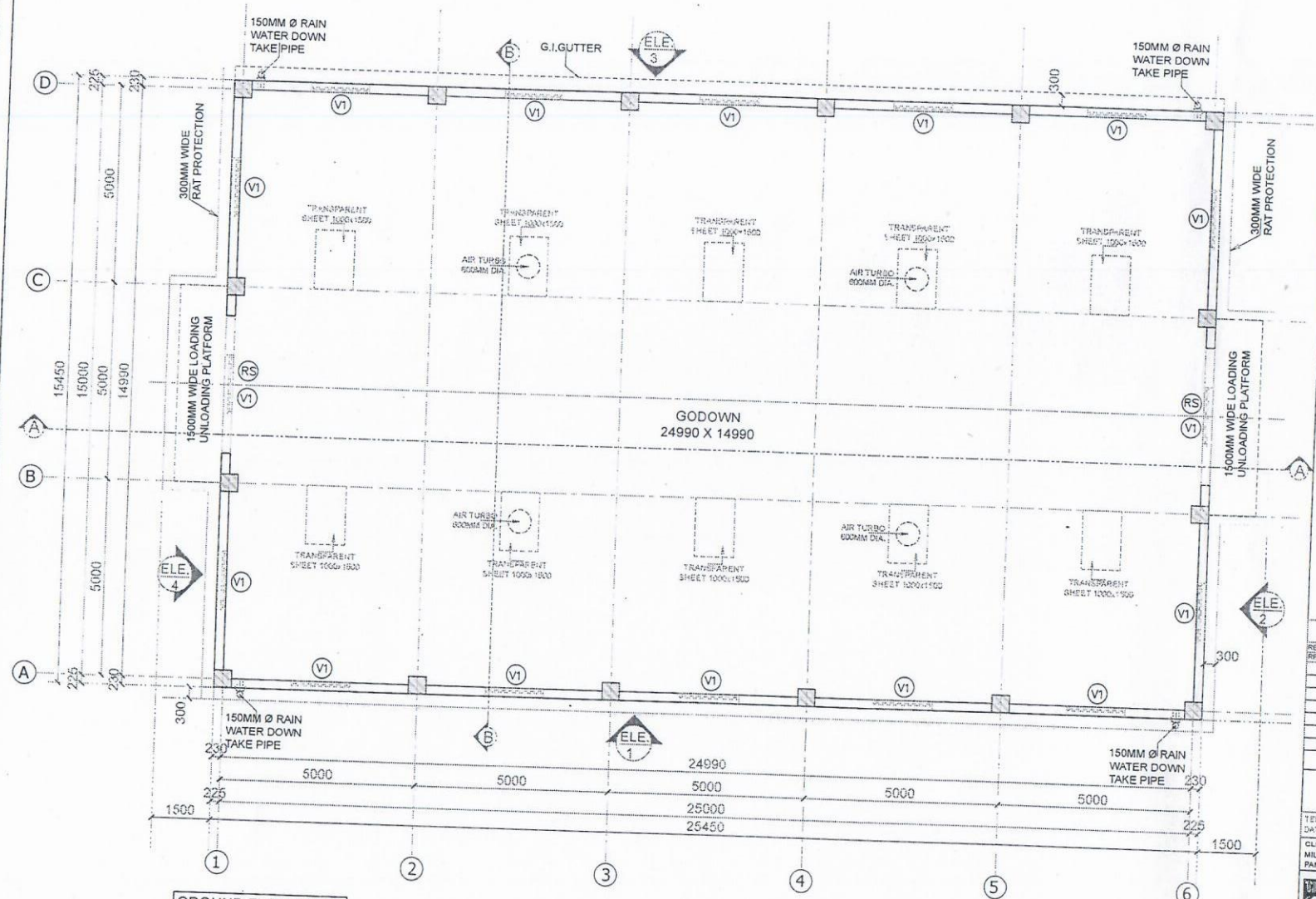




REVISION DETAILS	
REVNO	DATE
DESIGNER: ANANDS DATE: 26.05.2011	
CLIENT: MILK PLANT AT PURARI DAIRY PANJABARI, GUWAHATI-22, ASSAM	
PROJECT CONSULTANT:  NATIONAL DAIRY DEVELOPMENT BOARD ANAND, GUJARAT	
 TORSION ENGINEERS & CONSULTANTS ARCHITECTS, CIVIL & STRUCTURAL ENGINEERS (REGD. FIRM NO. 1024/2007) 20/A, ANANDAPUR, GUWAHATI-781005, ASSAM	
TITLE: SECTION A-A & B-B	
DWG NO: DEPT: PROJECT CODE: DRAWN BY: DATE: SCALE:	NAME OF BUILDING: [3] GODOWN EXTENSION OF EXISTING PURARI DAIRY GUWAHATI, ASSAM

↳ K. Basish Das.

393 sq mt (L-25,45 mt, B-15.45)



GROUND FLOOR PLAN
Area: 393.20 sq.m.

SCHEDULE FOR OPENING				
TYPE	SIZE	SILL	LINTEL	REMARKS
RS	3500X3000	000	3000	
V1	1500X1000	-	BEAM BOTTOM	

Shibasish Das.

REVISION DETAILS	
REVNO	DESCRIPTION

TECHER DRAWING
DATE: 26.03.2022

CLIENT:
MILK PLANT AT PURABI DAIRY,
PANJABARI, GUWAHATI-22, ASSAM

PROJECT CONSULTANT:
NATIONAL DAIRY
DEVELOPMENT BOARD
ANAND, GUJARAT

TORSION
ENGINEERS & CONSULTANTS
ARCHITECTURE STRUCTURE INTERIOR
88-89 FORTUNE BUSINESS
100, SINGH ROAD, PURBI SCIENCE CITY ROAD
DOLA, ANAND-388115, GUJARAT
CONTACT: +91 9222230223 E-MAIL: torsionengg@yahoo.com

TITLE
GROUND FLOOR PLAN

DWG NO.	AR-03-01	NAME OF BUILDING	[3] GODDOWN
DEALT	ISHITA		
PRCT. CODE			
CHNGD. BY	NVA	PROJECT IAMP	
DATE	14.12.2022	EXTENSION OF EXISTING	PURABI DAIRY, GUWAHATI ASSAM
SCALE	1:1.5		

BOQ FOR CIVIL & STRUCTURAL WORK FOR GODOWN FOR PURABI DAIRY, ASSAM.

SR.NO	Item No.	Item Description	Unit	Rate (Rs.)	Qty	Amount RS.
		EXCAVATION				
1	100024824	Excavation in all types of soil, including murrum, for foundations of wall, columns, plinth beams, basement, raft, ducts, trenches, underground sumps, septic tanks, soak well, manhole chambers, gully chambers, including shoring, strutting, bailing out water/pumping off water if required, re-filling the trenches, foundation pits, ramming, watering consolidating in 15 cms to 20 cms layers as directed, removing and stacking simultaneously the excavated stuff any where within the site area complete as directed - From NGL to 1.5 m depth (Refer Item no. 1.01 for detailed specifications in Section IV)	CU.M.		290	-
2	100024838	Providing and filling approved local sand free from debris, pebbles etc in trenches, plinth, under sub base surrounding areas including screening, watering and consolidation, transportation, loading, unloading, spreading etc. complete as directed. (Refer Item no. 1.10 for detailed specifications in Section IV)	CU.M.		20	-
3	100024834	Filling in plinth with selected excavated earth and rock stuff available within site in layers of thickness 200mm including screening if required, watering, ramming and compactin as directed using mechanical plate compactor and / vibro-roller and/ Power roller of 8 to 12 MT, testing cost for suitability of avialable earth/rock & compaction of each layer, cost of transportation, loading & unloading anywhere within site complete as directed. (Refer Item no. 1.07 for detailed specifications in Section IV)	CuM		47	-
4	100024835	Filling in ground other than plinth with selected excavated earth and rock stuff available within site, for land development etc. within the site, to required level, spreading in layers of thickness 200mm, including screening if required/as directed, watering, ramming, consolidating using power roller of 8 to 12 MT including testing cost for suitability of avialable earth/rock & compaction of each layer, cost of transportation, loading & unloading anywhere within site complete as directed. (Refer Item no. 1.08 for detailed specifications in Section IV)	CuM		29	-
5	100024836	Providing and filling in plinth with selected earth/murum brought from approved outside site sources, in mutiple layers of 200mm thickness including freight, transportation, loading, unloading, screening if required, watering, ramming, consolidating with mechanical compactor / vibro roller / power roller of 8 to 12 MT, testing cost for suitability of earth/murrum & compaction of each layer, etc complete as directed. (Refer Item no. 1.09 for detailed specifications in Section IV)	CuM		174	-
6	100024839	Providing and laying in a compact manner 150 mm thick metal soling in plinth in two layers using average 60 to 80 mm size stones similar to which used for concrete and RCC works, including test of materials, filling in the voids with largest possible similar stones, covering and levelling the surface with sand/ layer of murum, dry compaction followed by watering, topping up with sand / murrum and consolidation with mechanical plate compactor etc. all complete as directed. (Refer Item no. 1.11 for detailed specifications in Section IV)	CuM		84	-

S. Shibasish Das.

7	100024845	Carting away the excavated surplus earth / debris /rock /rock stuff etc. out side of the site including loading at site, transportation, unloading, spreading etc complete as directed. Lead shall be goverend as per the locations of the disposal sites out side the site premises and as per the local laws of the governing authorities in the area.(Refer Item no. 1.17 for detailed specifications in Section IV)	CUM		25	-
8	100024846	Supplying the chemicals & carrying out pre-construction Anti-termite treatment (IS 6131 part 2) with chlorpyriphos 20 EC with 1 % concentration (IS 8944) OR Imidacloprid 30.50SC with 0.075% concentration (IS 15443) at the various stages of construction in stages and as recommended by the chemical manufacturer to safeguard the building against termite including execution and submission of guarantee for a period of 10 years against any subterranean pests infestation. This work is to be got executed through an approved specialized agency as per their specifications. (Measurement shall be as per out to out plan dimension in SqM at plinth level of the building treated). Stages of treatment:- A). Treatment for RCC foundations and basement :- After the backfilling up to GL, the peripheral walls shall be treated at its both side up to 500mm depth at the rate of 7.5 Ltr/SqM. B). Treatment at the junction of the wall and floor (filling). :- After the plinth filling is completed, both the sides of the walls at the junction of the wall and filling to be treated at the rate of 7.5 Ltr/SqM. C). Floor treatment :- The top surface of the consolidated earth within plinth walls shall be treated with Chemical emulsion at the rate of 5 Ltr / SqM. D). Treatment of soil along the perimeter of building. :- After the building is complete, the earth along the external perimeter of the building shall be treated for a depth of minimum 300mm & width upto 750mm with Chemical emulsion at the rate of 7.5 Ltr/SqM. E). Treatment of Soil surrounding Pipes, Wastes and Conduits and any other service line going inside the building. (Refer Item no. 1.18 for detailed specifications in Section IV)	SqM		413	-
9	100024848	Clearing jungle including up-rooting of rank vegetations, thorny bushes, saplings, trees of girth (circumference) up to 300mm measured at a height of 1 metre above ground level, other vegetation cover, jungle plants, shrubs, climbers etc all in order to get the clear land having its original top layer including stacking all the removed debris, rubbish, vegetation, trees, saplings etc at the place as directed anywhere within site including loading, unloading, applying all machineries and equipments, etc all complete as directed. (Refer Item no. 1.19 for detailed specifications in Section IV)	ACRE		0.15	-
TOTAL FOR EXCAVATION						-
CONCRETE						-
10	100024763	Providing and laying machine mixed plain cement concrete (PCC) 1:4:8 in volumetric proportion (1 parts of cement: 4 part coarse sand : 8 part stone aggregates of size 37 mm and down) for specified thickness, for foundations below masonry/RCC walls, column footings, sunken floor terraces at any height above plinth level, raft at any depth below floors, pavements, roads, plinth protection, bed blocks, anchor blocks, etc. including centring and shuttering if required, laying spreading, ramming, consolidating as per requirement and curing etc. complete as directed. (Refer Item no. 2.03 of Section IV for detailed specifications) <i>Note:-Stone aggregates may be 20mm and down graded or 37mm and down graded for use in PCC. This item shall be paid for elements in any shape, size & thickness or depth and also for columns at terrace for future expansion provision, encasing of pipes/services, screed concreting etc. all. Item includes shuttering work at all heights.</i>	CuM		57	-

Shibasish Das.

11	100024766	<p>Providing & laying in position machine mixed and machine vibrated M-25 grade cement concrete of controlled grades having minimum cement content as specified under the technical specification for reinforced cement concrete structural elements in any shape, size, thickness or depth and design viz. foundations, columns, beams, slabs, raft, floor plinth beams, plinth beam ledges, window sills, copings, thin band beams, walls, parapets boxes, folded plates, chajjas, mullions, retaining walls, fins, staircases, overhead and underground water and other fluid tanks, statically loaded foundation rafts/floor, water troughs, manhole slab, septic tank slab, soak well slab, fins, fins forming box louvers, facias, eaves, arches, domes, road kerbs, etc. its concrete elements in any shape, size, thickness/depth and design as per structural design and as directed in specified compressive strength expressed in N/mm² at 28 days as per IS 456-2000 using 20mm or as specified size of crushed stone aggregates including design of concrete mixes as per procedure specified in IS 10262, approval and establishment of concrete mix as per design mix, automatic controlled weigh batched proportioning for all ingredients including water and admixtures, PC/PLC controlled batching machine having vividly display for real-time monitoring and collection of computer data of batch reports and printing batch reports on daily basis for submission to site engineer, cost of admixtures, necessary lift and lead as specified, pumping or bailing out water, finishing concrete surfaces, curing etc. complete but excluding centring/shuttering and reinforcement. For concrete grade M- 25 at all levels below and up to highest plinth level. (Refer Item no. 2.06 of Section IV for detailed specifications) <i>Note:-Screed concrete of any thickness shall be paid under this item as directed. Minimum Portland Pozzolana Cement (PPC) content for the concrete shall be 370 Kg/CuM</i></p>	CuM		82	-
12	100024768	<p>Providing & laying in position machine mixed and machine vibrated M-25 grade cement concrete of controlled grades having minimum cement content as specified under the technical specification for reinforced cement concrete structural elements in any shape, size, thickness or depth and design viz. foundations, columns, beams, slabs, raft, floor plinth beams, plinth beam ledges, window sills, copings, thin band beams, walls, parapets boxes, folded plates, chajjas, mullions, retaining walls, fins, staircases, overhead and underground water and other fluid tanks, statically loaded foundation rafts/floor, water troughs, manhole slab, septic tank slab, soak well slab, fins, fins forming box louvers, facias, eaves, arches, domes, road kerbs, etc. its concrete elements in any shape, size, thickness/depth and design as per structural design and as directed in specified compressive strength expressed in N/mm² at 28 days as per IS 456-2000 using 20mm or as specified size of crushed stone aggregates including design of concrete mixes as per procedure specified in IS 10262, approval and establishment of concrete mix as per design mix, automatic controlled weigh batched proportioning for all ingredients including water and admixtures, PC/PLC controlled batching machine having vividly display for real-time monitoring and collection of computer data of batch reports and printing batch reports on daily basis for submission to site engineer, cost of admixtures, necessary lift and lead as specified, pumping or bailing out water, finishing concrete surfaces, curing etc. complete but excluding centring/shuttering and reinforcement. For concrete grade M- 25 at all levels above highest plinth level upto 12mtr height (Refer Item no. 2.08 of Section IV for detailed specifications) <i>Note:-Screed concrete of any thickness shall be paid under this item as directed. Minimum Portland Pozzolana Cement (PPC) content for the concrete shall be 370 Kg/CuM</i></p>	CuM		46	-

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13	100000521	Providing and erecting in position form work shuttering , centering & boxing using approved quality new plywood and metal plates shuttering materials of approved quality for concrete elements vertical, horizontal, inclined, circular, curved etc. in all sizes, shapes and designs as per drawing including necessary staging/false staging at all intermediate levels, scaffolding, bolts/nuts, fastener nails, wires for keeping in position till concrete is laid and members have acquired required strength, removal thereafter, applying shuttering oil etc. complete as directed. Laminated plywood shall be essentially used for beam bottom and beam side in order to minimise the joints in shuttering work. Work to be carried out at all levels below ground level and up to highest plinth level . (Refer Item no. 2.13 of Section IV for detailed specifications)	SQM		532	-
14	100000522	Providing and erecting in position form work shuttering & boxing using new plywood and metal plates shuttering materials of approved quality for concrete elements vertical, horizontal, inclined, circular, curved etc. in all sizes, shapes and designs as per drawing including necessary staging at all intermediate levels, scaffolding, bolts/nuts, fastener nails, wires for keeping in position till concrete is laid and members have acquired required strength, removal thereafter, applying shuttering oil etc. complete as directed. Laminated plywood shall be essentially used for beam bottom and beam side in order to minimise the joints in shuttering work Form Work in superstructure to all heights above highest plinth level upto 12mtr for all concrete elements of any shape, size & direction etc complete as directed. (Refer Item no. 2.14 of Section IV for detailed specifications)	SQM		319	-
15	100024780	Providing and grouting the foundation bolts/pockets , base plates etc with ready mixed non shrink, free flow, self levelling, cementitious grout making holes if necessary in concrete, curing etc. as per the recommendations of the manufacturer, complete as directed. (Refer Item no. 2.20 of Section IV for detailed specifications)	CuM		1	-
16	100024793	Providing and laying cement concrete of grade 1:1.5:3, (1 part of cement: 1.5 parts of coarse sand: 3 parts of stone aggregates of size 12mm and downgraded) at all height from highest plinth level for filling the gap between the roof sheets and the underneath masonry walls and RCC elements in horizontal, sloping, curvature profile including providing & erecting in position scaffolding, staging and self finishing on both the sides, curing etc complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	CuM		2	-
17	100024794	Providing and laying 150mm X 150mm size cement concrete & cement finish vata in proportion 1:2:4 (1 cement: 2 course sand : 4 part 10mm or down graded stone aggregates) including making and finishing zaries in wall etc. finish with good surface as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	RM		35	-
18	100000539	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent authorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 8 mm dia bars . (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	No.		2	-

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19	100000540	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 10 mm dia bars . (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		2	-
20	100000541	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 12 mm dia bars . (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		2	-
21	100000542	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 16 mm dia bars . (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		2	-
22	100000543	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 20 mm dia bars . (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		2	-

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23	100000544	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent authorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 25 mm dia bars . (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		2	-
24	100000539	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent authorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 8 mm dia bars . (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	KG		19464	-
TOTAL OF CONCRETE						-
BRICK WORK						-
25	100025263	Providing and constructing brick masonry in any shape in machine mixed Cement Mortar (CM) 1:6 (1 part cement and 6 part coarse sand) in all works with approved quality bricks having minimum crushing strength 40 Kg./Sq.cm including all necessary scaffolding, racking out the joints, curing etc. complete as directed in foundation at all levels below and up to highest plinth level . (Refer Item no. 3.01 of Section IV for detailed specifications)	CuM		11	-
26	100024803	Providing and constructing brick masonry in any shape in machine mixed Cement Mortar (CM) 1:6 (1 part cement and 6 part coarse sand) in all works with approved quality bricks having minimum crushing strength 40 Kg./Sq.cm including all necessary scaffolding, racking out the joints, curing etc. complete as directed in superstructure at all heights above highest plinth level (Refer Item no. 3.02 of Section IV for detailed specifications)	CuM		84	-
TOTAL OF BRICK WORK						-
WOOD WORK						-

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27	100000682	Providing and fixing powder coated aluminium (minimum thickness of powder coating 50 micron) frame works for doors, windows, ventilators and partitions with extruded built-up standard tubular sections / appropriate Z sections and other sections of approved or equivalent make conforming to IS: 733 and IS: 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold-fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/Neoprene felt, Silicon sealant of approved make etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing/paneling, CP Brass/stainless steel screws, all complete as per architectural drawings and the direction of the Engineer -in-charge, (Cost of glazing / paneling shall paid separately as per the respective items).	KG		421	-
TOTAL OF WOOD WORK						-
FINISHING						-
28	100000699	Providing and applying 12 mm thick plain cement plaster finish at all heights and below highest plinth level in Cement Mortar (CM) 1:4 (1 part cement: 4 parts sand- 50% coarse and 50% fine) in line, level and plumb to the walls, concrete elements, beams, ceiling, stair, columns, pardis, including making plaster bands, stripes, moulds, pattas, grooves etc, over any brick or concrete surface as specified including scaffolding, curing and finishing smooth, complete as directed.	SqM		21	-
29	100000700	Providing and applying 19 mm thick plain cement plaster finish in two layers with first coat of 12mm thick with Cement Mortar (CM) 1:4 (1 part cement: 4 parts sand- 50% coarse and 50% fine) in line, level and plumb and second coat of 7 mm thick with CM (1:2) (1 part cement : 2 part fine sand) to the walls, concrete elements, beams, ceiling, stair, columns, pardis, including making plaster bands, stripes, moulds, pattas, grooves etc, over any brick or concrete surface as specified including scaffolding, curing and finishing smooth, complete as directed at all heights and below highest plinth level.	SqM		410	-
30	100000702	Providing and applying 19 mm thick sand faced cement plaster in two coats at all heights below and above highest plinth level with first coat of 12 mm thickness with cement mortar 1:4 (1part cement: 4 part of coarse sand) and top coat of 7 mm thickness with cement mortar 1:3 (1part cement: 3 parts of coarse sand) finishing using sponge to give uniform finish, on all types of concrete/brick surfaces including making plaster bands, stripes, pattas, grooves, drip moulds as per drawing/details, including scaffolding, curing etc., complete as directed.	SqM		468	-
31	100000704	Providing and applying 25 mm thick water proof cement plaster in two layers of 15 mm under layer and 10 mm thick top layer both in C M 1: 3 (1 part cement: 3 part sand -50% coarse and 50% fine) in line, level and plumb at all heights below and above highest plinth level, including adding water proofing compound of approved quality and make as per manufacturer's specifications necessary scaffolding curing etc complete as directed. (Quantity of waterproofing admixture added, shall be measured and paid for under relevant item).	SqM		21	0.00
32	100000705	Providing and applying neat cement finish to the plastered surface @ 2.2 Kg per SqM, including scaffolding, rubbing smooth with steel trowel / planer at all heights and below and above highest plinth level, curing etc. complete as directed.	SqM		5	-
33	100000707	Providing and applying (with brush only) white washing with lime on new /old work, at all heights below and above highest plinth level , three or more coats to give an even shade to walls, ceiling, AC sheets, etc., including addition of glue of approved make, Indigo (blue) to give bright finishing including scaffolding etc. complete as directed.	SqM		410	-

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34	100021638	Providing and fixing 24 gauge- chicken wire mesh at the junction of masonry work and RCC work or on any other place as directed to receive plaster including fixing with nails, raw plugs at all heights below and above highest plinth level including scaffolding etc complete as directed.	SqM		15	-
35	100000722	Providing and applying acrylic based Anti fungus exterior paint of approved make of desired shade on new work of smooth / sand faced / rough cast plaster finish.. Preparation of surface to be painted should be free from dust, grease any growth of fungus, alga or moss needs to be removed thoroughly by vigorous wire brushing and washing the surface with water, Freshly plastered surface to be allowed to cure completely. In case of surface imperfections such as holes, dent and cracks are to be filled only by using mixture of white cement and fine sand in the ratio of 1 : 3 at no extra cost (note - Any kind of putty is not recommended) for painting, applying primer of approved make, applying 2 coats of approved make paint as per specification at all heights below and above highest plinth level, scaffolding etc. complete as directed. (Measurement to be of the treated surface & nothing extra for rough / sand face surface)	SqM		468	-
TOTAL OF FINISHING						-
FLOORING						-
36	100000740	Providing and laying pre-polished machine cut single piece green Kota stone of uniform shade in required size as per drawing 25 to 40 mm thick for treads, risers, sides of staircase, kitchen platform, window cills over 20 mm thick cement mortar bed of CM 1:4 (1 part cement :4 part of coarse sand) with thick cement slurry including making 3 to 5 mm V shaped grooves if required, curing machine / hand, curing, grinding, polishing, wax polishing etc complete as directed. - For Kota stones of size above 1.0M and upto1.5 M long in single piece.	SqM		6	-
37	100000744	Providing and laying 50 mm thick IPS flooring with under layer of 38 mm thickness and top layer of 12 mm thickness complete as directed, 1:2:4 (1 part cement, 2 part coarse sand and 4 part stone aggregate 12.5 mm and down graded) finished smooth with top layer of 12 mm thick mortar in CM 1:2 (1 part cement : 2 part coarse sand)and cement slurry @ 2.2 Kg / Sq.M including rubbing/ grinding the top surface to match, including rounding off the junction and corners with floors and walls, necessary construction joints, finishing the top surface smooth / chequered or broom, curing etc. complete as directed.	SqM		52	-
38	100000746	Providing & mixing approved quality and make floor hardener of approved make as per manufacturers specification complete as directed.	KG.		1934	-
39	100000779	Providing and laying self finish cement concrete of grade M-25 in self finished flooring of 75 to 150 mm thickness or as specified in drawing over prepared sub-base in alternate panels of area upto 12 SqM and longer side up to 3.5 M or as per site conditions in line and level maintaining slope as per drawing including Formwork using MS channels of required height , compacting with needle and surface vibrator, levelling, finishing smooth with a float of cement or cement mixed with floor hardener, curing, providing and cutting the concrete floor for grooves 6mm wide X 10mm deep, contraction/ expansion joints of 25mm wide and depth as per drawing by cutter machine, providing necessary steel reinforcement, curing etc complete as per the drawing / as directed. (Reinforcement, floor hardener, expansion joint filler shall be measured and paid separately in relevant tender items)	CuM		61	-

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40	100023459	Providing and laying vacuum de-watered floor finish over and above concrete grid of M20/M25 or any surface as specified, involving levelling with trimix surface vibrator, Vacuum De-watering with trimix vacuum pump, floating and further compaction with trimix skin floater, floating disc, curing, cutting the concrete for contraction/ expansion joints of size 10 mm wide x 6to 8mm deep including filling the same with semi-rigid epoxy based approved sealant, curing etc complete as directed.	SqM		404	-	
41	100000805	Providing & laying 500 micron gauge polythene sheet below grade slab, PCC, RCC slab etc. to the required level including supplying , loading and Unloading, storing transportation, laying, sealing of junctions and over laps up to 200mm, all leads and lifts and overlap included all complete	SqM		404	-	
42	100000824	Providing and fixing PVC strips 3/5 mm & 50 mm wide in proper vertical position in IPS or Cast in Siitu. Flooring in line and level as per the direction.	RM		52	-	
			TOTAL OF FLOORING				-
			STEEL WORK				-
43	100000860	Providing, fabricating and fixing in position, grill, railing, steel ladder, Safety MS bars to windows/ ventilator of MS rolled sections as per architect's details including cutting welding, grinding to smooth surface, fixing hold fast of MS sections embedded in concrete 1:2:4 (1 part cement, 2 part coarse sand, 4 part of stone aggregate 12 mm and down), anchor bolts including 2 or more coats of first quality synthetic enamel paint of approved make over a coat of primer etc. complete as directed.	KG		990	-	
44	100000861	Providing, fabricating and fixing in position MS inserts such as nosing, corner angles of columns, plates, flats, tee's, protection channels of reception dock, supports, brackets and monorails, hooks, frame around cut-out, MS pipe sleeves etc. as per drawings and specifications, in true line and level including embedding the same into the permanent works at the time of casting of RCC works or fixing with or without base plate fixed to RCC element with appropriate size expansion bolts as per design, with necessary welding, grinding and painting with two or more coat of approved first quality synthetic enamel paint over a coat of primer etc. complete as directed.	KG		79	-	
45	100000857	Providing and fixing in position interlocking rolling shutters of approved make of 18 gauge, 75 mm wide cold rolled, MS Lathe interlocked through entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with bracket including top cover, spring, axles, guide rails, tees, iron pulleys, bearings, handles, arrangements for inside and outside locking, holding-down bolts / MS lugs embedded in CC 1:2:4 including 2 or more coats of first quality synthetic enamel paint of approved make, over a coat of primer etc. complete as directed. (Measurements to be considered for payment shall be the clear size of opening plus guide channels on both sides for width and 450mm on top for drum height) - for providing and fixing in position interlocking mechanically operated rolling shutter with mechanical device chain and crank operated with pair of handles etc complete as directed.	SqM		22	-	
			TOTAL OF STEEL WORK				-
			ROOFING				-

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46	100000893	<p>Supplying, fabricating, assembling, hoisting and fixing in position to alignments & levels as per approved drawings, structural steel work in-built up roof truss girders and side claddings with booms, lattice girders roof trusses, gable frame, purlins / built-up purlins, cladding structures, side runners, etc., to detail welded (welding as specified by the structural consultant) / bolted constructions comprising R.S. joints, channels, angles, plates or any MS rolled section including necessary permanent rivets, bolts & nuts, welding, handling straightening, cutting, making holes by drill machine, shop / site assembly, erection, (including preparation of template) transport to site, storing, etc., surface preparation by rubbing with motorised wired brush, sand paper, emery machines and painting with shop/site coat of red oxide primer prior to erection and two or more coats of first quality synthetic enamel paint of approved make and quality over a coat of red oxide primer after erecting in position at all heights including necessary scaffolding and staging, as required complete as directed.</p> <p>Payment will be made on the basis of standard section weights for net weight erected in position excluding rivets, temporary bolts, etc., but payment will be made for permanent bolts, nuts and washers.</p>	KG		7515	-
47	100000894	<p>Supplying, fabricating, assembling, hoisting and fixing in position to alignments & levels as per approved drawings, structural steel work in-built up roof truss girders and side claddings with booms, lattice girders roof trusses, gable frame, purlins / built-up purlins, cladding structures, side runners, etc., to detail welded (welding as specified by the structural consultant) / bolted MS rolled section B class pipes / medium duty tubular square / rectangular sections having minimum yield strength of 310 N/Sq.mm and confirming to the specifications as per IS 4923 & IS 1161 of approved make including cutting , radius bending, mitring and Welding after matching including necessary permanent rivets, bolts & nuts, welding, handling straightening, cutting, making holes by drill machine, shop / site assembly, erection, (including preparation of template) transport to site, storing, etc., surface preparation by rubbing with motorised wired brush, sand paper, emery machines and painting with shop/site coat of red oxide primer prior to erection and two or more coats of first quality synthetic enamel paint of approved make and quality over a coat of red oxide primer after erecting in position at all heights including necessary scaffolding and staging, as required complete as directed.</p> <p>(MS rolled sections like flats, plates, angles, T's, ' I ' / 'C' sections etc used shall be measured and paid under relevant item)</p>	KG		3600	-
48	100022069	<p>Providing & fixing GALVALUME colour coated cold rolled sheets made out of 0.45mm base metal thickness and Total Coated Thickness as 0.50mm, yield and tensile strength minimum 550 Mpa cold rolled sheet with hot dip metallic coating of aluminium zinc alloy 150 Gms/SqM, density minimum 4.45 Kg/SqM with minimum 20 microns super durable polyester paint or silicon modified polyester on top and 5 microns back-up epoxy coating at the bottom having 975/1015mm cover width with 28.5 mm high crest at 195/200mm C/C in length as approved by the architect and with necessary suitable imported galvanised carbon steel 40micron zinc coated/minimum 20micron Zinc-Tin alloy coated Hexagonal head, self drilling & self tapping screws of ITW Buildiex(R) AS 3566 Class 3/ HILTI/BOSCH having drilling capacity minimum 6-8mm and in required diameter and length fixed using torque drill machine all complete with EPDM sealing washers with sealant. Rate should include cost of plastic caps of approved colour of UV resistance and button bolts etc. for the fasteners. Rate to include also fixing in roofing and cladding, all accessories and utilities like ridge, corner piece, aprons, barge boards, gutters, flashings, end pieces, etc., all complete. The rates shall include all materials, tool / tackles, labour, scaffolding including handling and storage of the materials, providing guarantee against perforation for 10 years etc complete as directed for all heights.</p> <p>Measurement shall be paid for the plain area of the sheet laid. Overlaps, wastages, corrugation etc are inclusive with the rates and shall not be paid for.</p>	SqM		573	-

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49	100000896	Providing & fixing holding down bolts with nut, washer, upper portion of the bolts up to 100 mm portion or as specified threaded to requirement etc. complete as directed. (Rate to include for placing the bolts in position with templates etc.)	KG		48	-
50	100000903	Supplying and fixing UV resistant transparent polycarbonate sheet 2 mm thick of approved make, size, and tint in plain or curved profile for roof sheeting with anodised aluminium beading fixed with GI bolts or EPDM coated self tapping screws with EPDM sealing washer, filling the gaps with silicon sealant. Item rates shall be include cost of plastic caps of approved colour of UV resistance, sealant wherever required etc complete as per architects drawing and as directed.	SQM		110	-
51	100000904	Providing and fixing in Roof sheet/ R.C.C. slab Wind operated approved or equivalent make 600 mm dia Turbo – ventilators/ roof extractors with sky light , made from rotating heads having turbine blades of higrade aluminium, top and neck of stainless steel 304 grade, steel bearing with dust proof bearing housing or GFP Pushing instead of bearing, UV stabilised non-coloured translucent 3mm thick FRP moulded one piece construction (monolithic) venturi dome and corrugated base sheet (similar FRP sheets 3 mm thick UV resistant) of appropriate size having the profile matching with existing roof sheet with double action natural ventilation system powered by natural flow of air, boosts / extracts the hot and contaminated air / gases, obnoxious fumes, bad odour outside for healthy and improved environment inside Godowns including cutting the roof if necessary, fixing the leakage in roof etc complete as directed. Turbo ventilator as per drawing with the roof sheets including all fittings and fasteners as per manufacturer's specification, making the joints water proof to prevent entry of rain water	NO.		4	-
		TOTAL OF ROOFING WORK				-
		MISCELLANEOUS				-
52	100000926	Providing & filling electrical jharies 150 to 250 mm wide and average 50 to 75 mm deep with cement mortar 1:3 and finishing the same to match with the surrounding including painting/white washing etc. complete as directed.	RM		5	-
53	100000929	Providing and filling the jharies 25mm to 150mm wide and 50mm to 100mm deep with PCC 1:2:4 (1 part cement:2part sand: 4 parts 12.5 and down graded aggregates) and finishing the same as per surroundings including scaffolding, cutting the reinforcement bars, curing etc. complete as directed	RM		5	-
		TOTAL OF MISCLENIOUS WORK				-
		SANITARY				-
54	100001193	Providing and laying 160 mm diameter uPVC rain water line of 4 Kg / Sq cm rating of approved make with all necessary specials to be jointed adhesive as per manufacturers specifications etc complete for open pipeline / in brick wall / RCC structure including clamping to secure in position etc. complete as directed.	RM		22	-
		TOTAL OF SANITARY WORK				-
		TOTAL OF CIVIL & STRUCTURAL WORK				-

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