

NATIONAL LAW INSTITUTE UNIVERSITY

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TENDER DOCUMENTS

FOR

Miscellaneous Civil and Electrical work on the Campus of NLIU,
Bhopal



NATIONAL LAW INSTITUTE UNIVERSITY

Kerwa Dam Road, Bhopal - 462044

TENDER NOTICE- NLIU/ENGG/R&M/AUGUST-01

Online tenders are invited by the National Law Institute University for the following work as per tender specifications and bids have to be submitted online on Portal <https://mptenders.gov.in> as per the key dates in the notice published on the above website from appropriate class of contractors, registered in CPWD/MPPWD/Other State Govt. PWD under the Centralized registration system.

S. No	Tender Specification No.	Particulars	Tender Cost (Rs.)	EMD (in Rs.)	Date of Downloading the Tender Documents and Last Date of submission of Tender Document	Due date of opening of tender*
1	NLIU/ENGG/R&M/AUGUST-01	Miscellaneous Civil and Electrical work on the Campus of NLIU, Bhopal.	1000.00 + GST @18% (Rs 1180/-)	54,000/-	08.08.2023 to 22.08.2023	23.08.2023

NOTE: -

- (1) Other details can be seen in the complete tender documents which shall be made available on e-portal <https://mptenders.gov.in> and www.nliu.ac.in/tenders and can be downloaded from the portal.
- (2) Tender documents can be submitted only online from e-portal <https://mptenders.gov.in>. Details of tender document is also visible on the website www.nliu.ac.in/tenders
- (3) The bid data should be filled online and the documents which are to be uploaded by the bidders should be submitted online within time schedule (Key Dates).
- (4) The relevant portion of tender which tenderer have to fill online would be available on above website as per date mentioned in the tender document. The university reserves the right to reject any or all the tender or accept any tender in full or part as considered advantageous to the university, whether it is lowest or not, without assigning any reason whatsoever it may be.
- (5) Since the online bidders are required to sign their bids online using class III Digital Certificates only, hence they are advised to obtain the same at the earliest. Bidders intending to participate in the Tender are required to get themselves trained on the e-Procurement System of MP Tender.
- (6) The bidders are required to invariably upload the documentary evidence of submission of **EMD/TENDER COST in Envelope- A** without which online offer i.e. **Envelope – B (Technical Bid) & C (Financial Bid)** shall not be opened.
- (7) No offer will be accepted without valid Earnest Money Deposit. If on opening of tender, it is revealed that EMD amount is inadequate/ any other discrepancy is noticed, the offer shall be rejected.
- (8) The corrigendum or addendum to the bidding documents, if any, as well as any change in due date(s) of opening of tender will be published on the website: <https://mptenders.gov.in> & also on university website <http://www.nliu.ac.in> and will not be published in newspapers. Hence, participant bidders are advised to regularly visit the websites for latest information in this regard. The university shall not be responsible in any way for any ignorance of the bidders about the corrigendum or addendum or change in the due dates.

- (9) No physical submission of Bid is required. The date of opening of Technical Bid shall be the date of opening of tender for all the purpose.
- (10) The Tender document will be available on portal <https://mptenders.gov.in> on or before from **08.08.2023 to 22.08.2023 at 03:00 PM and the date & time of received of tender on 22.08.2023**. The interested bidders are advised to regularly visit the portal for purpose.
- (11) If any of the above happen to be a holiday, the next working day will be the due date.



Online Item Rate Tenders are invited from the contractors who are registered in CPWD/MPPWD/ Other State Govt. PWD in the appropriate class for the work of Miscellaneous Civil and Electrical work on the Campus of NLIU, Bhopal.

Cost of Tender Document is **Rs. 1000/-(NON-REFUNDABLE)** excluding GST @18% which should be deposited electronically. Bidder has to pay the cost after calculating the GST amount. Tender Documents without 'Cost of Tender Document' will be summarily rejected. Tender Documents without requisite EMD will be summarily rejected.

Eligibility Criteria -

Contractors who fulfil the following requirements shall be considered as eligible bidder:

1. GST No.
2. PAN No.
3. Valid Registration Certificate in CPWD/MPPWD/Other State Govt PWD.
4. Work order along with completion certificate of similar nature of work in any government organisation at least 01 work of Rs. 8.80 Lakh, 02 work of Rs 5.50 lakh, 03 work of Rs 4.40 Lakh each.
5. Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last 3 financial years.
6. EPF and ESIC No.

The tender document (consisting of a schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents, if any) can be downloaded from the university website www.nliu.ac.in/tenders or www.mptenders.gov.in from **08.08.2023 to 22.08.2023 at 03:00 pm**. *The University shall not be responsible for any delay/difficulties/inaccessibility of downloading facility for any reason whatsoever. In case of any discrepancy between the documents downloaded from the internet. No claim on this account will be entertained.*

Tender should be submitted as per the prescribed format within the specified date and time failing which the offer shall be summarily rejected. **Bid Validity period is 90 Days** from submission of bid. Bid will be opened on **23.08.2023 at 03:00 pm**. The University reserves the right to reject any tender without assigning any reason thereof.

Registrar
On behalf of NLIU, Bhopal



INSTRUCTIONS TO THE BIDDER

1. Attention of the tenderer is directed to the conditions of tender and general conditions of the contract of NLIU. The Bidder must read the terms & conditions before submission of the tender.
2. The Tenderer shall visit and inspect the site and obtain all information on his own responsibility and at his own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding the contract. All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the University accepts no liability whatsoever therefore. Failure by the tenderer to have done all the things, which in accordance with his condition he is deemed to have done shall not relieve the successful tenderer of the responsibility for satisfactory completion of the work as required. If there is any clarification required, the tenderer shall submit the queries in writing 03 (Three) days before the last date & time of submission of the tender, to the Registrar, NLIU, Kerwa Dam Road, Bhopal. Access to the site will be granted, if necessary, to the party with the prior permission of the University.
3. The time for completion of work is **30 Days** & will be reckoned from the date of issue of Work Order.
4. The **Defect Liability Period will be 24 months** after completion of work. The Contractor shall promptly rectify all defects pointed out by the Engineer well before the end of the Defect Liability Period, if any. The Defect Liability Period shall automatically stand extended until the defect is rectified.
5. If the Contractor has not corrected a Defect pertaining to the Defect Liability Period to the satisfaction of the Engineer, within the time specified by the Engineer, the Engineer will assess the cost of having the Defect corrected, and the cost of correction of the Defect shall be recovered from the Performance Security or any amount due or that may become due to the contractor and other available securities.
6. The Earnest Money received shall be refunded to the unsuccessful bidders without any interest, after the finalization of the party. The Earnest Money Deposit (EMD) of the successful tenderer shall be refunded after the submission of performance bank guarantee.
7. **In the case of a successful bidder, the bidder has to furnish performance bank guarantee of 05% of the awarded contract value for the entire duration of defect liability period/extended period. University is not liable to pay any interest on that amount after the completion of the contract period.**
8. Security Deposit shall be deducted from each running bill at the rate of 02 (two) percent of the gross amount of the bill. The maximum limit of the deduction of the security deposit is upto 05% of the Final contract Amount. The Security Deposit shall be refunded on completion of Defect Liability Period.
9. Earnest Money Deposit (EMD) will be forfeited in the following cases –
 - a. If the tenderer withdraws/modifies his tender during the period of Bid Validity.
 - b. If the tenderer does not accept the correction of arithmetical errors of his tender.
 - c. If the tenderer after awarding of work, does not start the work within the stipulated time period as per Letter of Acceptance / Work Order.



10. During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given in the Contract Data. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/byelaws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct from any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

11. The Contractor shall be responsible for:

- a. Carrying out the tests prescribed in specifications, and
 - b. For the correctness of the test results, whether performed in his laboratory or elsewhere.
- No extra payment will be made to contractor for conducting the test. The Test be carried out through Laboratories accredited by National Accreditation Board of Laboratories (NABL) by the Contractor.

Eligibility Criteria

Contractors who fulfil the following requirements shall be considered as Eligible Bidder:

- a.) GST No. (Enclose self-attested copy)
- b.) PAN No. (Enclose self-attested copy)
- c.) Cost of Tender Fee Rs. 1180/- including GST @ 18% (Non-refundable).
- d.) EMD of Rs.54,000/-
- e.) Valid Registration Certificate in CPWD/MPPWD/Other State Govt PWD.
- f) Work order along with completion certificate of similar nature of work in any government organisation at least 01 work of Rs. 8.80 Lakh, 02 work of Rs 5.50 lakh, 03 work of Rs 4.40 Lakh each.
- g.) Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last 3 financial years.
- h.) EPF & ESIC No.



NECESSARY INFORMATION TO THE BIDDERS

1. The bidder shall have to submit self-certified copies of valid PAN, GST registration.
2. All Rates, Prices, Amounts and Sums quoted by the bidder shall be in INR only. The language used throughout shall be English.
3. All Rates, Amounts & Sums shall have to be quoted in both in figures and words. If the rate quoted in words does not tally with the rate quoted in figures, then the rate which corresponds to the lesser amount shall be considered.
4. Tender must be submitted with the rates for all the items of work involved and any incomplete tender documents will not be considered. The items for which the rates are not quoted will be considered as 'Zero' & the agency shall complete that item of work without any claim.
5. No alteration shall be made by the party in the quotation and no conditional tender will be entertained. Tenders with a split rate will not be considered.
6. The bid shall remain valid for a period of **90 Days** from the date of opening of the bid. If before the expiry of the validity period or issue of work order, whichever is earlier, the bidder amends/modifies/withdraws his bid, making it unacceptable to the University, then the Earnest Money Deposit shall be liable to forfeiture at the option of the University.
7. **The Rates quoted by the party should be clear. All the column of the price bid should be filled carefully.** No claim on this account whatsoever shall be entertained at any stage including the extended period, if any.
8. The Intending bidders will have to produce documentary evidence in original in support of their credentials before the competent authority whenever demanded verification. If any information furnished by the bidder is found false/fabricated then his bid will be rejected and treated as cancelled, even if the same is detected at any stage after signing of the contract and would lead to termination of the contract besides the forfeiture of Earnest Money Deposit (EMD) and liabilities towards prosecution under appropriate law. In such cases, the bidder/tenderer will be debarred from participation in the future tendering process.
9. Should there be any doubt or obscurity as to the meaning of any of the tender documents or if any further information is required, the tenderer must address his enquiry in writing in duplicate to Registrar, National Law Institute University, Kerwa Dam Road, Bhopal – 462044.
10. The Bids shall be received on date and time stipulated in the Notice Inviting Tender or Corrigenda otherwise. Tenders that are received after the date and time specified will not be considered.
11. All taxes and statutory obligations will be deducted from the bill as applicable from time to time as per Govt. rules.
12. The Technical Bids will be opened on the specified date and time.
13. The University reserves the right to accept or reject any or all the offers including the lowest without assigning any reason. The Institute does not bind itself to accept the lowest offer.
14. Payment shall be made after the completion of work.
15. No advance payment will be made, any offer linked with advance payment is likely to be ignored. Payment shall be made after the completion of works.

16. After winning the order, if you fail to complete the work your EMD will be forfeited and you will be blacklisted from participating in any future bid/tender.
17. The decision of acceptance of tender will lie with the competent authority of NLIU, who does not bind himself to accept the lowest tender and who reserves the right to himself to reject or partially accept any or all quotations received, without assigning any reason.
18. **A penalty of 1% of the total order value will be imposed per week for late completion of work or a maximum of @10% of the value of work.**
19. Financial bids of those bidders shall be opened who qualified in the Technical Bids.
20. The Employer shall be entitled to make any variation of the quality or quantity of the works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion be desirable, he shall have power to order the contractor to do and the contractor shall do any of the following:
 - a) Increase or decrease the quantity of any work up to plus-minus 20% included in the contract.

ADDITIONAL CONDITIONS OF CONTRACT

- 1 The quantities indicated are approximate and may vary at the time of execution. The University will exercise absolute discretion for operating all or some items of the schedule.
- 2 Contractor has to remove all the debris from the site of execution and dispose of them at suitable places shown by the Engineer or his authorised representative at the site.
- 3 All temporary arrangements, staging, working platforms etc. are to be provided by the tenderer at his own expense to the satisfaction of the University. The University will not, however, be liable to pay any compensation due to accident, injury to the contractor's workmen or any account whatsoever.

Irrespective of rates quoted by the bidder, the contractor shall be solely responsible for payment of *Minimum Wages* as stipulated by the Government from time to time.



FINANCIAL BID

BILL OF QUANTITIES

Sr. No.	Description of the item	Quantity	Unit	Rate	Total Amount
1	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared. The material to be disposed outside the campus as directed by Engineer-In-Charge.	200	Sqm		
2	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil. The material to be disposed outside the campus as directed by Engineer-In-Charge.	200	Sqm		
3	Supplying and filling including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete. With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	50	Cum		
4	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	150	Sqm		
5	Providing and laying factory made machine pressed precast cement concrete interlocking paver block of any shape and size conforming to IS:15658- 2006 and ISI marked of 60 mm thickness, M-30 grade with grey cement and pigment all as specified. Made by block making machine with strong vibratory compaction, laid in required colour and pattern over and including 50mm thick compacted bed of stone dust, filling the joints with sand etc. all complete as per the direction of Engineer-in Charge	170	Sqm		
6	12 mm cement plaster of mix : 1:4 (1 cement : 4 sand)	160	Sqm		
7	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	100	per 50 kg cement used in the mix		
8	Distemping with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 grams/ltr of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coat on new work	150	Sqm		



9	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chow khats, architrave, holdfasts etc. complete and stacking within 50 meters lead Of area 3 sq. meters and below	2	Each		
10	Providing and laying Ceramic glazed floor tiles 300x300 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS : 15622 of approved make in any colours and shade laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc., complete.	30	Sqm		
11	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours & shades, except burgundy, bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand) prepared same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.	70	Sqm		
12	Dismantling tile/ Kota stone/ Marble / Granite work in floors/walls and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm. The material to be disposed outside the campus as directed by Engineer-In-Charge.	17	Sqm		
13	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level : M-7.5 Nominal Mix - 1 Cement : 4 sand : 8 graded stone aggregate	56	Cum		
14	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. The material to be disposed outside the campus as directed by Engineer-In-Charge.	348	Sqm		
15	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid. And dismantling the existing one if as required and the material to be disposed outside the campus as directed by Engineer-In-Charge.	1	Each		



16	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap. And dismantling the existing one if as required and the material to be disposed outside the campus as directed by Engineer-In-Charge.	2	Each		
17	35 mm thick factory made Solid panel PVC Door shutter made out of single piece extruded solid PVC profiles, 5mm (± 0.2 mm) thick, having styles and rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm x 20 mm x 1 mm, joints of styles and rails to be mitered cut and joint with the help of PVC solvent cement, self driven self tapping screws and M.S. rectangular pipes bracket of size 190 mm x 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles and rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge. Non decorative finish (matt finish).	4	Sqm		



18	<p>Providing and fixing ISI marked factory made flush door shutters conforming to IS: 2202(Part-I) non decorative type, core of block board construction with kiln seasoned and chemically treated 2nd class hard wood battens (strips) and frame of kiln seasoned and chemically treated, finger jointed 1st class hard wood of width not less than 65mm for style, top rail, bottom rail and 125mm for lock rail. Block board shall be provided with well matched 3mm thick commercial 3ply veneering consisting of vertical grains, cross bands and commercial grade face veneers on both outer faces of shutters including kiln seasoned and chemically treated, finger jointed 2 nd class teak wood external lipping (battens) fixed in factory by using pneumatic gun, of depth not less than 25 mm on all edges of shutters including all material and labour complete as perspecification and direction of engineer-in-charge. Spacing of finger joints in wood as above shall not be less than 50cm. Each shutter shall be factory made to the exact opening size within frame of doors/cupboards and shall be stamped by the manufacturer to display name of manufacturer, batch number of product and conformity with IS:2202. 30mm thick including 3 nos. 100mm long, ISI marked heavy weight (2.5mm thick) Stainless steel butt hinges with necessary screws</p>	5	Sqm		
19	<p>Providing and fixing pressed steel door frames made of 1.6 mm thick steel profile conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mildsteel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including 2.5mm thick M.S. pressed butt hinges, with mortar guards, lock strikeplate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) fixing with adjustable lugs (200 mm long & 1.0 mm thick) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in- charge; Profile B of 1.60mm thick single rebate of size 80mmx50mm Fixing with carbon steel galvanised dash fastener of required dia and size inclusive.</p>	20	meter		
20	<p>Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :M-15 Grade Concrete</p>	3	Cum		

21	<p>Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete .</p> <p>Note:-</p> <p>1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge.</p> <p>2. No extra payment shall be done for overlaps and/or couplers.</p> <p>3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")</p> <p>Mild steel and Medium Tensile steel bars.</p>	10	KG		
22	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required. 300mm sweep RPM 900 / 1400	3	Each		
23	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS :374/2019 with upto date amendments. Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m ³ /min and service value ≥ 4.00 as per BEE..	6	Each		
24	Supply and fixing as per specification Switch of approved make ISI marked with necessary material complete. 6/10Amp SP 250 Volt modular switch	25	Each		
25	Supply and fixing as per specification socket outlet of approved make & ISI marked with necessary material complete 10/16/20Amp 250 Volt 3 Pin modular type	8	Each		
26	Supply and fixing Led tube rod comprising of LED tube with nonintegral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy > 100 lm/Watt. LED driver PF > 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job. Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC diffuser.	14	Each		



27	Erection of fan regulator in position with necessary material connection etc. complete as required.	1	Each		
28	Structural steel work using M.S. flats, angles, channels I-section, H-section etc. riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	100	KG		
29	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 micron epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length up to 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self-drilling /self-tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	330	Sqm		
30	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm + 0.05 % total coated thickness, Zinc coating 120gsm as per IS: 277 in 240 mpa steel grade, 5- 7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws complete : Crimp Curve	4	Sqm		
31	Brick work with well burnt chimney bricks in bulls pattern trench kiln manufactured by ghol process, crushing strength not less than 40kg /cm ² and water absorption not more than 15% in foundation and plinth i/c curing etc. complete. Cement mortar 1:4 (1 cement : 4 sand)	22	Cum		
32	12 mm cement plaster of mix : 1:4 (1 cement : 4 sand)	5	Sqm		
33	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x5mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6mm for diagonal braces	2	Sqm		
34	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required. 450mm sweep RPM 900 / 1400	2	Each		



35	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in surface rigid steel conduit of ISI marked suitable size including painting etc. as required as per specification 2x2.5 Sq.mm.	60	Meter		
36	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm.	1	Each		
37	Providing and fixing in position best Indian shower rose 150mm dia, body and face chrome plated, brass made body, Silicon based Rubbit cleaning nozzles.(Premium Range)	1	Each		
38	Providing and fixing PTMT bib cock of approved quality and colour 15mm nominal bore 90mm long weighing not less than 93 gm	2	Each		
39	Providing and fixing PTMT grating of approved quality and colour. Circular Type 125 mm nominal dia with 25 mm waste hole.	2	Each		
40	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in-Charge. Concealed work including cutting chases and making good the walls etc.15 mm nominal outer dia .Pipes	10	Meter		
41	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in-Charge. Concealed work including cutting chases and making good the walls etc.20 mm nominal outer dia .Pipes	10	Meter		
42	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External Work 75 mm nominal inner dia. Pipes.	25	Meter		



43	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with onestep CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in-Charge. External Work 100 mm nominal inner dia. Pipes.	10	Meter		
	Add GST @ 18%				
	Total With GST				

