



MADHYA PRADESH POLLUTION CONTROL BOARD
Paryavaran Parisar E-5, Arera Colony, Bhopal – 462016
Phone (0755) 2466 191/ 2464 428 Fax : (0755) 2463 742 E-mail mppcb@rediffmail.com web www.mppcb.nic.in

Tender Notice

NO. MPPCB/HO/MAINT./TS/02/2018-2019

TENDER DOCUMENT

FOR

**Renovation and maintenance work at
MPPCB, Bhopal**

Year: 2018 - 19

M. P. Pollution Control Board
E-5 Sector, Paryavaran Parisar,
Arera Colony, Bhopal – 462016

PBX : +91(0755) 2464428 / 2466191
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No. 564/HOPCB/Maint/2019

Bhopal, Dated 01/03/2019

NOTICE INVITING TENDER

TENDER NOTICE NO. MPPCB/HO/Maint/TS/02/2018-19

Sealed Tenders are invited from reputed / registered Contractor for Renovation and maintenance work at MPPCB, Bhopal of Estimated cost of Rs. **9,96,000. (Nine Lacs Ninety Six thousand)** The sealed tenders shall be received till 03/04/2019 up to 13:00 Hrs and shall be opened on the same day at 15:00 Hrs. For further details please refer web site at www.mppcb.nic.in


Executive Engineer
(Maintenance)



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Sealed tenders in two bid system i.e. **envelop "A"** (Technical Bid) and **Envelop "B"** (Price Bid) are invited from registered contractors for the following works:

BRIEF DESCRIPTION OF WORK	ESTIMATED COST (Rs.)	EARNEST MONEY (Rs.)	TIME OF COMPLETION
Renovation work for ESC room ,reception hall and construction of Gents washroom at MPPCB, Bhopal, work includes such as false ceiling, ACP sheet wall paneling, censor glass door, paver blocks ,water proofing and Electrical works etc.	9,96,000/- (Nine Lacs Ninety Six thousand)	25,000/-	4 Months

Tender documents can be obtained from Maintenance section of MPPCB, E -5 Arera Colony Paryavaran Parisar, Bhopal -16 on or before **02/04 /2019 till 03 PM** on payment of Rs 2500.00 (Non refundable) towards cost of tender document. The earnest Money of requisite amount shall be submitted in a separate sealed envelope mentioning the details thereof. No tender shall be considered without requisite earnest money. The last date for submission of tender is **03/04/2019 by 1.00 PM** and the same shall be opened on the same day at 3.00 PM in the presence of bidders, who wish to participate. The detailed terms & conditions are available in tender document and can be seen on Board's Web site www.mppcb.nic.in


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GENERAL CONDITIONS

1. Sealed item rate tenders for renovation work of ESC room, reception hall and construction of Gents washroom at MPPCB, Bhopal are invited from eligible contractors by the Board up to 13:00 Hrs. on or before **03/ 04/2019** The tenders are to be submitted in two separate envelopes each sealed and clearly identified as to envelop number and contents as indicated below. Both the envelopes shall be contained in a large envelope super scribed '**Tenders for renovation and maintenance work at MPPCB, Bhopal.**
2. The tenderer will be issued one set of tender documents comprising of Technical Bid and Price Bid for preparation of their tender.
3. Tenderers have to return all the documents issued to them while submitting their tender, duly stamped and signed as per instructions.
4. **Envelope "A"**: This envelope shall be super scribed '**ENVELOPE "A"- TECHNICAL BID for renovation & maintenance work at MPPCB, Bhopal.** Price bids of Tenderers who do not fulfill the above requirements shall not be opened. The required documents should be submitted strictly as prescribed. Original documents may be required for verification of the above claims at the time of opening the technical bids.

Envelope "A" shall contain tender documents each page duly signed by Tenderers as a token of their acceptance of the technical and contractual details, including tender form duly filled in, complete details and description, including all data to be supplied by tenderer as specified in the information and instructions to tenderers. The envelope "A" shall also contain Earnest Money Deposit in the form of crossed **Demand Draft of Rs.25,000.00 (Rs Twenty five thousand only) in favor of Member Secretary M. P. Pollution Control Board, Bhopal.** The Envelop "A" shall also contain forwarding letter of the contractor mentioned following annexure in support of their eligibility:

- (a) Documents indicating the set up of organization, partnership, proprietorship, pvt. Ltd, public ltd. etc.
- (b) Valid Enlistment with MPPWD/ CPWD/MES/Railways/Public Sector Undertakings, other Government bodies etc.



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- (c) Details of works of similar nature carried out in Central or State Government bodies/departments, Public Sector Undertakings (if any).
- (d) Copy of valid GST Number if any.
- (e) Copy of Registration with Employees Provident Fund Organization (if any).

5. Envelope "B" shall contain only the copy of schedule of work and prices duly filled in and signed by the tenderer along with the prescribed letter. No commercial or technical condition or qualification of any sort shall be indicated by the tenderer in this Envelope, otherwise the tender shall be summarily rejected. This envelope shall be super scribed 'ENVELOPE "B" (PRICE BID) as tender for **renovation and maintenance work at MPPCB, Bhopal.**

6. Envelope "A"& "B" will be opened on the due date in the presence of such tenderers or their duly authorized representatives as may like to be present at 15:00 Hrs at the address indicated above.

7. The Board reserves the right to accept or reject any or all the tenders without assigning any reasons.

8. Earnest money deposit of **Rs.25,000.00** (Rupees Twenty five thousand only) must accompany the Technical Bid (Envelope "A") through demand draft in favor of the Member Secretary MPPCB Bhopal, otherwise it shall be rejected. In the event of the tender being accepted the earnest money shall form a part of the security deposit. The earnest money of un- successful tenderers will be refunded within 60 days of opening of tenderers.

9. The approved firm shall have to submit 7.5% security deposit of the ordered value in the form of bank Guarantee or in the shape of Demand Draft in favor of the Member Secretary MPPCB Bhopal, for a period of 12 months, other wise 7.5% amount shall be deducted from the bill. The Bank Guarantee or deducted amount shall be released after 12 months on satisfactory performance of the job done.

10. The tender will not be accepted from the firm to whom the document is not issued by the Board and the bid downloaded from net without tender fee will not be accepted.

11. The tenders shall remain open for acceptance for a period of 180 days from the date of opening of the Envelop "B".

12. Rate(s) quoted shall include provision of all scaffoldings, tools, plants, accessories and shifting of office material/ files etc., required for



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proper execution of the work. Rate(s) shall also cover the cost of handling, carriage, all type of taxes, duties and royalties, etc.

13. **Payment Condition:** The contractor will submit the bill of the work done, these will be verified by the Engineer through the quality and volume of the work executed and recorded in the measurement book/Measurement sheet. The payment will be made on completion of all the work and fulfillment of contractual liabilities.
14. **No advance payment shall made to contractor against material procurement**
15. No running Bill payment shall made by the Board.
16. The M. P. Pollution Control Board reserves the right without assigning any reasons therefore to:
 - Accept or reject any or all tenders in whole or in part;
 - b) Increase or decrease the quantities of any item of the work and the successful tenderers shall perform the same at the rates quoted.
17. Time of completion of work will be four (4) months from the date of commencement as per letter of intent, which can be relaxed for additional 30 days by the Member Secretary. After scheduled time limit, 2% of the total contract value per month penalty shall be levied the amount of penalty shall not be more than 10% of the contract value or bill value whichever is more.
18. Any further clarifications may please be obtained from the undersigned. Intending tenderers are encouraged to visit the site of work and acquaint themselves with the scope of work.
19. Price quoted by the tenderer shall be firm, inclusive of all levies, excise duty and GST, any other tax etc. No escalation in price would be permitted on any ground.
20. TDS and any other taxes as applicable from time to time shall be recovered by the Board from the bills submitted by the contractor. Any change in the rate of TDS shall be to the contractor's account.
21. The quantity of work may be variable the tenderers are requested to make him familiar with the site and work to be executed.
22. In case of any dispute the decision of Chairman, M.P. Pollution Control Board shall be final & binding.



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23. Material specifications are mentioned against items of the tender. However where no specification is given one of the following make of the material shall be used. The contractor will have to get the sample approved from the Engineer In charge whose decision shall be binding on the contractor. The condition is also applicable for any material not mentioned in the specification or schedule of works no deviations are allowed in these even during / after tender.

SN.	MATERIAL APPROVED	MATERIAL APPROVED BRANDS
1.	Paints	Asian, Berger, Narolac
2.	Putty	JK, Birla, Tata,
3.	Water tank	Sintex, plasto or similar make.
4.	Plumbing fittings	Pyreware, Hindware or equivalent
5.	Glass	Modi, Saint Gobain, Asahi
6.	Tiles	Jonshon, Somani, kajaria
7.	False ceiling	Armstrong/Saint Gobain
8.	Sliding glass Censor gate	Dorma, inox or equivalent.
9.	Electrical Items	<u>Wires</u> – Anchor/HPL/ V Guard/Greaves. <u>Cables</u> – V Guard, Robin, Heavels <u>Modular Switches</u> – CPL, Anchor Rome, Legrand <u>Pipes</u> – AKG, Crown, Shrinah MCB – Standard Heavels, C&S, Legrand, HPL, LED lights- Philips, syska .

NOTE: CONTRACTOR SHOULD OBTAIN APPROVAL FROM ENGINEER INCHARGE OF THE BOARD BEFORE PLACING ORDER FOR ANY SPECIFIC MATERIAL / AGENCIES.


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EVELOPE B (PRICE BID)

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Name of Work – Renovation and maintenance work at MPPCB, Bhopal.

SN.	Item of Work	Unit	Qty	Rate	Amount
1.	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq metres and below (SOR Item No. 15.14.1)	Nos.	3		
2.	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls , flooring and jambs complete to match existing surface i/c disposal of mulba / rubbish as directed by Engineer in charge . For door/ window / clerestory window. (SOR Item No. 14.4.1)	Sqm	1.0		
3.	Providing and fixing tiles false ceiling of approved materials of size 595x595mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel section (galvanised @ 120 gms/sqm.) consisting of main T runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.3mm thick. Sheet spaced at 1200mm c/c and cross T of 24x25 mm made of 0.3mm thick. Sheet 1200mm long spaced between main T and 600mm c/c to form a grid of 1200x600 and a secondary T of length 600mm of size 24x25 made of 0.3mm thick. Sheet to be interlocked at middle of the 1200x600mm panel to form a grid of 600x600mm and lying false ceiling tiles of approved texture in the grid including where ever required cutting/making opening for services like diffusers, A.C grills, light fixture, smoke dictators etc. Main T runner to be suspended from ceiling using G.I slotted cleats of size 27x37x25x1.6 mm fixed to ceiling with 12.5mm dia. and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85x30x0.8 mm spaced at 1200 mm c/c along main T , bottom exposed width of 24 mm of all T- sections shall be pre- painted with polyester paint, all complete for all heights as per specifications drawings and as directed by Engineer in charge. GI Metal Ceiling lay in pain micro look edge Global white colour tiles of size 595x595 mm, and 0.5mm thick with 8mm drop; made of GI sheet having galvanizing of 100 gms/sqm and electro statically polyester powder coated of thickness 60 microns, including factory painted after bending.(SOR Item No.12.50.1)	Sqm	76.5		



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4.	providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre ,one flange fixed to the ceiling with dash fastener 12.5 mm dia. x 50mm long with 6mm dia. bolts other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts and bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre , shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia. x 230 mm long G.I. wire at every junction , including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall / partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230mm interval ,including fixing of 10 mm thick plaster of Paris (gypsum anhydrous) sheet to ceiling section and perimeter channels with the help of dry wall screws of size 3.5x25mm at 230mm interval including jointing and finishing to a flush of tapered and square edges of POP board with jointing compound(POP paste) including the cost of making openings for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed ,all complete as per drawings, specification and direction of the Engineer in charge . Flat surfaces (SOR ITNo.12.46.1)	Sqm	9.5		
5.	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor II level in cement mortar 1:6 (1 Cement : 6 sand) (SOR Item no.- 6.7.1.2)	Cum	5.5		
6.	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS : 12894, in super structure above plinth and up to floor two level. Having 100 kg/cm ² average compressive strength. Cement mortar 1:4 (1 cement : sand) SOR Item No. 6.15.1.2	Sqm	15		
7.	20 mm cement plaster of mix (1 cement : 4 sand) (SOR Item no. 13.3.1)	Sqm	21.5		
8.	12mm Cement plaster of mix 1 : 4 (1 cement : 4 sand) (SOR Item no.- 13.1.1)	Sqm	70		
9.	Providing & applying white cement based putty of	Sqm	185		



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	average thickness 1mm of approved brand & manufacturer, like Birla White/JK white or equivalent over the plastered wall surface to prepare the surface even and smooth i.e. at cost of material labour and scaffold etc. in all position complete.(SOR Item no.-13.41)				
10.	Wall painting with acrylic emulsion paint , having VOC (volatile Organic Compound) content less than 50 grams/litre, of approved brand & manufacturer , including applying additional coats wherever required ,to achieve even shade and colour. Two coats. (SOR Item No. 13.50.2)	Sqm	185		
11.	Providing and fixing of Vertical Roller Blinds of approved shade and make by Engineer in charge with all fittings completely.	Sqm	12		
12.	Removal of old Tarfelt i/c disposal as directed by Engineer in charge(SOR Item No.15.25)	Sqm	24		
13.	Water proofing treatment over Roof, Wall, Chajjas, Balcony with Diamond Shield and Sealer coat or equivalent at leakage/seepage area consisting of (i) Surface preparation roughening of surface, opening of cracks in V groove in size of 5mmX10mm (W x D), filling of cracks with putty of Diamond shield with laying fibre glass mesh, Cleaning of surface by scrubbing with steel wire/Nylon brush. Removing all dust particles and washing with adequate water to clean completely.(ii) providing and applying 1st coat of diamond shield or equivalent (minimum thickness 70-80 micron) (a two component flexible waterproof and protective modified mortar ,dry powder 80% Chemical 20% acrylic resin having 30% solid contents) with mix proportion of part 1 and 2 with proper mixing with laying of fiber glass mesh (of weaving size of 10X10 yarn /inch duly coated with alkaline resistant polymer). Allow the coating to air cure for minimum 2 hrs. (Diamond shield or equivalent. After two hours minimum of 1st coat applying 2nd coat (minimum thickness 100 micron) of diamond shield or equivalent with mix proportion of part 1 and part 2 with proper mixing. Allow the coating to air cure for minimum 2 Hrs. Consumption of the diamond shield or equivalent should be @17.90 kg for 10sqm area.(After two coats of diamond shield, surface is to be cured properly minimum for 4 hours before application of third coat). (iii) Providing and applying 1st coat of sealer coat 50-60 micron (single component High build elastomeric, flexible, pure acrylic waterproofing membranes having solid content of 65%) and allow it to air cure for 4 Hrs. minimum. After two hours minimum of 1st coat applying 2nd and final coat 120-140 micron of sealer coat and allow it to	Sqm	40		



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	air cure for 4 hrs minimum, Consumption of Sealer core should be @5.40kg per 10 sqm. Area. (iv) The treated area should be cure with water for 48 hrs. By flooding the surface. (V) The final appearance of the coating will be milky white. All above operations to be done in order. (With 5 years service guarantee).				
14.	Providing and laying vitrified floor tiles in different sizes with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1 : 4 (1 cement : 4 sand) including grouting the joints with white cement with matching pigments etc. complete. (SOR Item No. 11.53.2) Nano Digital double charged vitrified tiles.	Sqm	10.5		
15.	providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1 st 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) jointed with grey cement slurry @ 3.3 kg per sqm including pointing the joints with white cement and matching pigments etc, complete. (SOR Item No. 11.46)	Sqm	24		
16.	Floor PCC, providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work up to plinth level: with 40 mm nominal size graded stone aggregate. Nominal mix - 1 cement :3 sand :6 graded stone aggregate (M 10) SOR Item No.4.1.2.2	Cum	3		
17.	Providing and fixing Antiskid endura floor tiles of any sizes, 12 mm thickness with water absorption's less than .08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1 : 4 (1 cement : 4 sand) including grouting the joints with white cement with matching pigments etc. complete. (SOR Item No. 11.60)	Sqm	9		
18.	providing and fixing pressed steel door frames conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges, 2.5mm thick with mortar guards, lock strike-plate 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) and applying a coat of approved steel primer after pre- treatment of the	Metre	7		



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	surface as directed by Engineer -in-charge: Profile B of 1.60mm thick single rebate of size 80mmx50mm. Fixing with adjustable lugs with split end tail to each jamb. (SOR Item No.10.13.1.1)				
19.	providing and fixing ISI marked flush door shutters conforming to IS: 2202 (part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters of such as duro board, century or equivalent make. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.(SOR Item 9.18.1)	Sqm	2.16		
20.	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 microns 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 upto 12 metre or as desired by Engineer- in - charge . The sheet shall be fixed using self drilling / self tapping screws of size (5.5 x55mm) 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. (SOR Item No. 24.9)	Sqm	16		
21.	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses/ frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc.complete. Hot finished welded type tubes (SOR Item No.10.15.1)	Kg	150		
22.	Providing and fixing ISI marked stainless steel door latches with screws etc. complete: 300x20x6 mm (SOR Item No. 9.68.1)	Nos	2		
23.	providing and fixing ISI marked stainless steel handles with necessary screws etc. complete. 125 mm (SOR Item No. 9.69.1)	Nos.	2		
24.	Designing, fabricating , testing , installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding , with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including : a) Structural analysis and design and preparation of shop drawings for pressure	Sqm	36		



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	<p>equalisation or rain screen principle as required , proper drainage of water to make it watertight including checking of all the structural and functional design. b) providing , fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades. The aluminium composite panel cladding sheet shall be coil coating of approved colour and shade on face # 1 and polymer (service) coating on face # 2 as specified using stainless steel screws, nuts, bolts,washers, cleats, weather silicone sealant , backer rods etc. c) The fastening brackets of aluminium alloy 6005 T5/MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement , fasteners SS 316, Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing . The item includes cost of all material and labour component , the cost of all mock ups at site , cost of all samples of the individual components for testing in an approved laboratory , field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handling over of the building for occupation . Base frame work for ACP cladding is payable under the relevant aluminium items. The Contractor shall provide curtain wall with aluminium composite panel cladding , having all the performance characteristics all complete, as per Architectural drawings , as per item description , as specified , as per the approved shop drawings and as directed by the Engineer in charge . However , for the purpose of payment , only the actual area on the external face of the curtain wall with Aluminium Composite panel Cladding (including width of groove) shall be measured in sqm . up to two decimal places. 4 mm thick aluminium composite pannel material consisting of 3 mm thick FR grade miner core sandwiched between two aluminium sheets (each 0.5mm thick). (SOR Item No. 8.7.1)</p>				
25.	<p>providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia. 3mm including strengthening with 2mm dia. Wire or nuts, bolts and washers as required complete with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x60cm of mix 1:5:10 (1 cement :5 sand : 10 graded stone aggregate 40mm nominal size) every 15th post , last but one end post and corner post shall be struted on both sides and end post on one</p>	Sqm	12		



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	side only and struts embedded in cement concrete blocks 70x45x50cm of the same mix, as per the direction of Engineer in charge.(SOR Item No.10.35)				
26.	Supplying at site: Angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for 10cm length and drilling holes up to 10mm dia. Etc. complete (cost of earth work in excavation and concrete work in foundation to be paid separately). (SOR Item No. 10.29.2)	Kg	80		
27.	Structural steel work riveted, bolted or welded in built up sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (SOR Item No. 24.2) for water storage tank stand work.	Kg	75		
28.	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing , polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc. of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer in charge .(for payment purpose only weight of stanless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) (SOR Item No. 10.25).	Kg	65		
29.	Supply and fixing of recessed mounting type Led light fixture, LED of 1 to 3 W each assembled on single MCPCB, having color temp 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>80lm/W. LED driver, PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Housing made of CRCA with glare free diffused polycarbonate cover.Submission LM 80-08 Form LED Source Manufacturer &LM79-08 / IS16106 from NABL approved lab.Manufacturer manadatory i/c connection wire, testing etc.to complete the job. 2 Yrs Guarantee certificate from manufacturer.				
	LED luminiarc 2' X 2', 36 W, 4-6.5K	Nos.	6		
	LED luminiarc 2' X 2', 25 W, 4-6.5K	No.	1		
	Corner ceiling LED Light ,9 w	Nos.	4		
	Corner Light LED , 11 w	Nos.	8		
30.	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp, holders, ceiling roses etc) with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside				



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	conduit etc. as required as per specification for :- PWD SOR 2014. Item No.4.1 Light Point/Fan Points.				
	A. Short Point	Nos.	7		
	B. Medium point	Nos.	15		
	c. Long point	Nos.	3		
31.	18.2 Supplying and fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed / surface excluding switch, socket etc. as required for (SOR Item No.18.3)				
	1 Or 2 Module	Nos.	11		
	3 Module	Nos.	8		
	4 Module	Nos.	10		
	6 Module	Nos.	2		
	8/9 Module	Nos.	1		
32.	9.1 Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid P.V.C Conduit (HMS) ISI Marked of suitable size etc. with 16 Amp. F.T. Switch & Socket / S.S. Combined 6/16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for On Separate Board (Modular Accessories) (SOR Item No.9.1)				
	A. Short point	Nos.	9		
	B. Medium point	Nos.	15		
	C. Long point	Nos.	3		
	D.Extra long -I	Nos.	1		
33.	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply confirming to IS : 8828 : 1996, IEC : 60898 :2002 but without enclosures				
	SINGLE POLE (SP) 6 Amp to 32 Amp Rating(SOR Item No.27.5.1.2) 32 Amp-5Nos.& 16 Amp-1 No.	Nos.	6		
	FOR TRIPLE POLE & Neutral (TPN) 50Amp to 63 Amp Rating(SOR Item No.27.5.5.4)	No.	1		
34.	Supplying and fixing of approved make accepted standard sheet steel enclosure (dust protected) duly powder coated paint neutral bar suitable for MCB/ RCBOs/MCCB of caoacity as required etc. complete as per specification (exclusive of MCB/MCCB/RCBOs). for MCB DP/TP/FP Enclosure (SOR Item No.27.16.1)	No.	1		
35.	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cape in M 20 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, cement concrete and the length of the pile to be	Metre	24		



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	embedded in pile cape etc. All complete. (Length of the pile for payment shall be measured up to the bottom of pile) 250 mm diameter pile (SOR Item no.- 20.10.1)				
36.	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to floor two level including all wastage etc. complete. Thermo-Mechanically Treated bars. (TMT) (SOR Item no.5.16.6)	Kg	550		
37.	Reinforced cement concrete work (with 20mm nominal size graded stone aggregate) in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and up to floor two level excluding cost of centering, shuttering, finishing and reinforcement: M 20- Grade Concrete. (SOR Item no.- 5.2.1)	Cum	4.5		
38.	Centring and shuttering including strutting, propping etc. and removal of form for Columns, pillars, Piers, Abutments, Posts and Struts. (SOR Item no.- 5.9.6)	Sqm	38		
39.	Tiles floor, providing and laying Ceramic glazed floor tiles 600x600 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS :15622 of approved make in colours such as white , Ivory, Gray, Fume Red ,Brown , laid on 20mm thick cement mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc, complete. (SOR Item no.11.45)	Sqm	7.65		
40.	providing and fixing 1 mm 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. angles 40x40x6mm for diagonal braces. (SOR Item No. 10.5.1)	Sqm	2.14		
41.	providing and fixing T- iron frames for doors , windows and ventilators of mild steel T sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm. long embedded in cement concrete block 15x10x10 cm of Cement concrete 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size). (SOR Item No. 10.12.1)	Kg	70		
42.	30 mm thick factory made polyvinyl chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (+/-0.2 mm) ,with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets	Sqm	3.78		



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	of size 75x 220 mm having wall thickness 1.0 mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised M.S tube of size 25x20 mm and 1 mm (+/- 0.1 mm) wall thickness. the lock rail made up of H' section ,a uPVC hollow section of size 100x30 mm and 2 mm (+/-0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S 'U' cleats. The shutter frame filled with a uPVC multi- chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (+/- 0.1 mm) wall thickness.the panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer - in - charge.(SOR Item no.9.163.2)				
43.	ventilation,providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top/centre hung with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted . including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design (sectional weight of only steel members shall be measured for payment) fixing with 15x3 mm lugs 10 cm.long embedded in cement concrete 1:3:6 (1 cement :3 sand : 6 graded stone aggregate 20 mm nominal size) (SOR Item no.10.10.1)	Kg	6		
44.	wc, providing and fixing water closed squatting pan (indian type W.C. pan) with 100mm sand cast iron P or S trap, uPVC Por S trap, 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: white Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.(SOR Item No.17.1.1)	No	1		
45.	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 : 7232, 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 (SOR Item No.17.2.1)	No	1		
46.	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	No.	1		



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	brackets, cutting and making good the walls wherever required: White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.(SOR Item No.17.11.2)				
47.	Providing and fixing white vitreous china flat back half stall urinal of sizes 580x380x350mm. (SOR Item No.17.27)	Nos.	2		
48.	Providing and fixing CP brass Urinal spreader of approved quality and make. (SOR Item No. 17.76)	Nos.	2		
49.	Providing and fixing uPVC trap of self cleaning design complet. Including cost of cutting and making good the wall and floors. 100 mm inlet and 75 mm outlet (SOR Item No.17.61.1)	Nos.	4		
50.	providind and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete. Semi rigid pipe 32 mm dia. (SOR Item No.17.64.1.1)	No.	1		
51.	Providing and fixing CP brass waste coupling of approved quality and make for sink and wash basin. Waste coupling 31 mm of 79mm length and 62 mm breadth. (SOR Item No. 17.71.1)	No.	1		
52.	providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS : 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion . Single socketed pipes for working pressure of 4 kg/sqcm. 75 mm diameter (minimum wall thickness 3.2 mm) SOR Item No. 17.58.1	Metre	5		
	110mm diameter (minimum wall thickness 3.2mm) (SOR Item No. 17.58.2)	Metre	12		
53.	providing and fixing unplasticised PVC moulded fittings/ accessoriesfor unplasticised Rigid PVC soil and waste pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion .Bend 75 mm bend SOR Item No. 17.59.5.1	Nos.	6		
	110 mm bend (SOR Item No.17.59.5.2)	Nos.	6		
	Coupler 75mm (SOR Item No.17.59.1.1)	Nos.	3		
	Coupler 110mm (SOR Item No.17.59.1.2)	Nos.	3		
54.	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 the cost of cutting chases and making good the same including 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.(SOR Item No. 18.8.2)	Metre	30		
55.	providing and fixing G.I. pipes complete with G.I.	Metre	20		



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	fittings including trenching and refilling etc. External work: 20 mm dia nominal bore(SOR Item No. 18.12.2)				
56.	providing and fixing PTMT stop cock of approved quality : 15 mm nominal bore (SOR Item No.18.66.1)	Nos.	4		
57	providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore (SOR Item No.18.52.1)	Nos.	3		
58	Providing and fixing uplasticised PVC connection pipe with brass unions: 30 cm length, 15 mm nominal bore. (SOR Item No. 18.38.1.1)	Nos.	3		
59.	Providing and fixing CP jet assembly to including connection etc. complete. (SOR Item No. 18.82)	No.	1		
60.	providing and fixing rquired stainless steel fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V profile or M profile and with O ring sealing gasket of EPDM material of required dia as per direction of Engineer in charge .Male Thread Tee for 15.88 mm outer dia x 15 mm nominal dia threaded(SOR Item 18.21.1)	Nos.	6		
61.	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet. 100mm diameter. (SOR Item No.18.64.1)	No.	1		
62.	providing and fixing CP brass towel rail of approved quality and make , 600x20mm (SOR Item 17.73.1)	No.	1		
63.	providing and fixing CP brass soap dish of approved quality and make , 600x20mm (SOR Item 17.75)	No.	1		
64.	providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shape with 6 mm thick hard board backing : Rectangular shape 1500x450 mm (SOR Item 17.68.4)	No.	1		
65.	providing and fixing 18 mm thick gang saw cut mirror polished machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. Samples approved by Engineer in charge. Granite of any colour and shade (SOR Item 11.22.2)	Sqm	1.5		
66.	constructing brick masonry road gully chamber 45x45x77.5 CM with bricks in cement mortar 1:4 (1 cement : 4 sand) with precast R.C.C. vertical grating complete as per standard design: with well burnt bricks (SOR Item No. 19.28.1)	No.	1		
67.	Supplying and filling in plinth with hard muram/ hard copra under floors including watering ramming consolidating in layers not exceeding 20 cm in depth	Cum	2		



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	and dressing complete. (SOR Item No. 2.28)				
68.	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI :12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and base support for tank. (SOR Item No.18.49) 500 Litres	Nos.	2		
69.	providing and fixing gun metal gate valve with brass lever handle of approved quality .(SOR Item 18.33.1) 25 mm nominal bor	Nos.	4		
70.	taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc. disposal of unserviceable material to the dumping ground for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer in charge.(SOR Item 15.13)	Sqm	90		
71.	laying old cement concrete interlocking paver blocks of any design/shape laid in required line,level, curvature, colour and pattern over and including 50mm thick compacted bed of sand , filling the joints with sand etc. all complete as per the direction of Engineer in charge . (Old CC paver blocks shall be supplied by the department free of cost). (SOR Item 14.60)	Sqm	60		
72.	providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand including locking edges with M 15 cement concrete in footpath , park, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications and direction of Engineer in charge. 60mm thick C.C. paver block of M-35 grade with approved colour, design and pattern. (SOR Item No.11.74)	Sqm	30		
73	Providing and fixing Automatic Sliding Sensor Glass Door (12mm thick Toughened glass) with Locking system and all accessories complete fitting works as approved by Engineer in Charge. Dorma XL-C,Ozone,Innox or equivalent make. (Size 2.67Wx2.42H)	No.	1		
74.	Renewing glass panes, with putty and nails wherever necessary. Float glass panes of thickness 5.5 mm(SOR Item No.14.5.2)	Sqm	4.5		
	GRAND TOTAL Rs.				



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Having examined the form of contract, schedule of quantities, relating to the above mentioned work and having visited and examined the site of the proposed works and having acquired the requisite information relating thereto as affecting the tender invited by you on behalf of the M. P. Pollution Control Board, I/we, the undersigned hereby offer to execute and complete the proposed works strictly in accordance with the Award of contract for the sum/amount of Rs _____ (Rupees _____) or such other sum as may be ascertained in accordance with said conditions as given in the tender document.

I/we undertake to complete and deliver the whole of the works within Six months from the date of commencement of work as per the relevant clause of the contract. Upon receiving possession of the site, I/we shall be under obligation to pay the sum as per General Conditions of the contract. I/we have deposited earnest money of Rs 25,000.00 (Rupees Twenty thousand only) by Bank Draft/Pay Order which will carry no interest. I/we hereby agree that this sum shall be forfeited by the M. P. Pollution Control Board in the event of my/our tender being accepted and I/we fail to execute the contract when called upon to do so.

Yours faithfully,

Name & Seal of the Partner of the firm