



**NOTICE FOR INVITING TENDER FOR REPAIR
AND RENOVATION OF EXTERIOR PART OF
OFFICE BUILDING AT PARYAWARAN
PARISAR, ARERA COLONY, BHOPAL-16 (M.P.)**

ESTIMATED COST : ₹ 5.25 LAC



**Ref. : MPPCB/MAINT-ERC/10/2014-15
Date of Tender Submission : 21/11/2014
Work Completion Limit : 45 Days
EMD Amount : ₹ 25000.00**

**Emergency Response Centre
M.P. Pollution Control Board,
E-5, Sector, Paryawaran Parisar,
Arera Colony, Bhopal – 462 016
India**

**Phone : 0755 - 2469 180
PBX : 0755 - 2466191
Fax : 0755 - 2463 742
E.mail: ercmppcb@nic.in
Web : www.ercmp.nic.in**

1. The sealed Tenders are invited by the Member Secretary, M.P. Pollution Control Board, Bhopal, Madhya Pradesh from the eligible and reputed contractors /building construction firms for the repair and renovation of office building located at Paryawaran Parisar, E-5 Sector, Arera Colony, Bhopal – 462016.
2. The details of the work are depicted in Appendix 1 which includes providing and fixing of pressed clay tiles, re-plastering of walls, changing of doors and window panes, providing and laying in cement concrete, wall finishing with best grade primer and paint, brick work, water proofing of roof and side walls, roofing with non-asbestos high impact polypropylene reinforced cement sheets etc.
3. The work completion carries a time limit of 45 days from the issue of work order.
4. The tender document consisting of 'terms & conditions' and tender schedule can be obtained from 22/10/2014 during office hours from the address mentioned at para 8 below on payment of required fee of ₹ 1000.00 (₹ One thousand only) by cash or Demand Draft from any nationalized bank in favour of "Member Secretary, M.P. Pollution Control Board" payable at Bhopal. The bidders can also download the tender documents from the website www.mppcb.nic.in, however a separate demand draft of ₹ 1000/- in favour of Member Secretary, M.P. Pollution Control Board" payable at Bhopal shall have to be enclosed alongwith the technical bid towards the cost of tender document.
5. The tenderer should have completed atleast three work of near similar nature in their name during last three years costing each work not less than the 50% cost of this Project. Copy of documents in support of execution of work, viz. copy of work order, completion certificate etc should essentially be accompanied with the Technical Bid. The tenderer shall also furnish proof of experience, Sales tax/VAT/TIN etc. as applicable.
6. Tenders not accompanied with Earnest Money Deposit and tender document cost in the prescribed manner shall be rejected.
7. The last date of submission of Tender is 21/11/2014 by 1300 hrs. The tender shall be opened on the same day at 1500 hrs.
8. Address : Member Secretary, M.P. Pollution Control Board, Sector E-5, Paryawaran Parisar, Arera Colony, Bhopal – 462016 (M.P.)
9. The Tender issuing authority reserves the right to reject all or any tender wholly or partly without assigning any reason whatsoever.
10. In case of any dispute, the decision of Chairman, M. P. Pollution Control Board shall be final & binding.

Sd/—

Member Secretary



INSTRUCTIONS TO THE TENDERERS

1.0 GENERAL

Tenderers are advised to acquaint themselves fully with the description of work, scope of services, time schedule and terms and conditions including all the provisions of the Tender Document before preparing and submitting their tender.

2.0 SITE PARTICULARS

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to site conditions etc.

3.0 SUBMISSION OF TENDER

The tender, complete in all respect, shall be submitted along with Earnest Money as stipulated in the Tender Document. Tenders without Earnest Money Deposit and Tender Document Cost will be out-rightly rejected.

Tenders shall be submitted in Two sealed envelopes Super scribing as follows :

D) Technical Bid

Name of work :

Tender no. :

Due date & time of opening :

Addressed to : The Member Secretary, M.P. Pollution Control Board, Sector E-5,
Paryawaran Parisar, Arera Colony, Bhopal – 462016 (M.P.)

From : Name & address of the tenderer

This envelope shall contain the following: -

- i. EMD in the form of Demand Draft drawn on a scheduled/nationalized bank in favour of 'Member Secretary, M.P. Pollution Control Board" payable at Bhopal.
- ii. Tender document cost in the form of Demand Draft of ₹ 1000.00 drawn on a scheduled/nationalized bank in favour of 'Member Secretary, M.P. Pollution Control Board" payable at Bhopal, if the Tender document has been downloaded from the web. (This is not applicable to those bidders who have purchased the Tender Document from office by paying requisite fee of ₹ 1000.00).



- ii. Details of atleast three similar nature of works and minimum value of 50% cost of this Tender work cost, Valid registration with Sales Tax department for Work Contract, Tax/VAT/TIN.

II) Price Bid

This envelope shall contain the following: -

1. The tender document with Prices and amount duly filled by the party against the items Sr. No. 1 to 32 described in the Schedule of quantity in Appendix 1.
2. Tender document should have no conditions (i.e. deviations / assumptions / stipulations / clarifications / comments / any other request) whatsoever. The conditional offers will be rejected.

4.0 ABNORMAL RATES

If it is noticed that the unit rates quoted by the Tenderer for any items are unusually high or unusually low, it will be sufficient cause for rejection of the tender unless the MPPCB is convinced about the reasonableness of the unit rates on scrutiny.

5.0 DEVIATIONS TO TENDER CLAUSES

Tenderers are advised to submit the tender strictly based on the terms and conditions and specification contained in the Tender Documents and not to stipulate any deviations. Conditional tenders are liable to be rejected.

6.0 VALIDITY OF OFFER

Tender submitted by tenderers shall remain valid for acceptance for a minimum period of 120 days from the date of opening of the tenders.

7.0 AWARD OF WORK

The work shall be awarded to the lowest bidder, subject to work experience and fulfillment of Terms & Conditions. The work shall be awarded to the single bidder without splitting it into parts for more than one bidder.

8.0 ACCEPTANCE / REJECTION OF TENDER

- i) The MPPCB does not bind itself to accept the lowest tender and reserves the right to accept or reject any tender in part or full without assigning any reason whatsoever.
- iii) The MPPCB also reserves the absolute right to reject any or all the tenders at any time solely based on the past unsatisfactory performance by the bidder(s). The decision of MPPCB regarding the same shall be final and conclusive in all respect.



9.0 CORRECTIONS

No corrections or overwriting will be entertained in schedule of rates by using correcting fluid. All correction in the schedule of rate should be signed in full.

10.0 FIRM RATES

The rates quoted by bidder shall remain firm till completion of all works even during the extended period, if any, on any account whatsoever. It is provided that the contractor shall not change any of the rates, quoted in the tender till the completion of the work.

Sd/-
Member Secretary



TERMS & CONDITIONS OF CONTRACT

1. Execution of Agreement:

The Contractor is required to approach the MPPCB for execution of agreement for the said work as per the prescribed proforma to be provided by the MPPCB on a non judicial stamp paper of ₹ 100/- within 07 days from the issue of the letter of award.

2. Contract Documents:

The Contractor shall be provided, free of charge, one certified true copy of the Contract Documents and drawings on need basis, which may be issued during the progress of the Works. He shall keep these Documents on the Site in good order.

3. Works to be carried out:

The work to be carried out under the Contract shall, except as otherwise provided in these, include all labour, materials, tools, equipment transport and taxes which may be required in preparation of and in full execution and completion of the works.

4. Inspection of Site:

The Contractor shall inspect and examine the Site and its surrounding and shall satisfy before submitting his tender as to the nature of the Site, the quantities and nature of works and material necessary for the completion of the works, the accommodation required and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect this tender.

5. Sufficiency of Tender:

The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the Works.

6. Security Deposit:

Total security deposit shall be 5 % of the accepted tender cost and shall be deposited by the contractor within one month from the start of the work.



- 6.1 All compensation or other sums of money payable by the contractor under the term of this Contract or any other Contract or any other account whatsoever may be deducted from the security deposit.
- 6.2 Refund of Security deposit: Security deposit refundable to the Contractor, worked out on the basis of the value of work completed, shall be refunded to the Contractor after defect liability period of 12 months after certification by Officer I/c in writing that the work has been completed satisfactorily. No interest shall be payable to the contractor on the Security Deposit

7.0 Deviations/Variations Extent and Pricing

The Officer I/c shall have power to :

- (i) make alteration, omissions, additions or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and
 - (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with instructions given to him in writing signed by the Officer-in Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein. Any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.
- 7.1 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended if requested by the contractor in proportion of the additional cost.

8.0 Time and Extension for Delay:

- 8.1 The time allowed for execution of the works as specified or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence before commencement of second week after the date on which the MPPCB issues written orders to commence the work or from the date of handing over of the site, whichever is earlier.
- 8.2 If the work be delayed by
- (a) Force majeure or
 - (b) Abnormally bad weather or
 - (c) Serious loss or damage by fire etc
 - (d) Civil commotion, local combination of workmen strike or lockout, affecting any of the trades employed on the work, or
 - (f) Any other cause, which, in the absolute discretion of the Officer I/c mentioned in Appendix, is beyond the Contractor's control;



Then, upon the happening of any such event causing delay, the Contractor shall immediately inform thereof in writing to the Officer I/c and shall do all that may be reasonably required to the satisfaction of the Officer- in-Charge to proceed with the Works.

- 9.0 The Contractor shall arrange, at his own expense, all tools and equipment, labour and other utility required for execution of the work.

10. Force Majeure

Any delays in or failure of the performance of either party herein shall not constitute default hereunder or give rise to any claim for damages, if any, to the extent such delays or failure of performance is caused by occurrences such as Act of god or the public enemy; expropriation or confiscation of facilities by Government authorities, or in compliance with any order or request of any Governmental authorities or due acts of sabotage or fires, explosions, riots etc.

11. Materials

All materials to be provided by the Contractor shall be in conformity with the specifications laid down in the contract and the Contractor shall, if requested by the Officer- in-Charge, furnish proof to the satisfaction of Officer I/c in this regard.

12. Labour:

- a.) The Contractor shall employ its labour in sufficient numbers to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the Contract and to the satisfaction of the Officer I/c. The Contractor shall not employ in connection with the Works any person who has not completed eighteen years of age and shall abide by the Labour law/Wages Act.
- b.) All the workers or employees deployed by the contractors shall be considered the employees of contractor and the MPPCB shall not have any liability what so ever in nature in regard to such workers/employees.
- c.) The Contractor shall indemnify and keep indemnified the MPPCB against:
 - i) Any claim arising out of third party loss/ damage to life or property caused by/ during execution of the work.
 - ii) Any claim arising out of loss/ damage to the workmen engaged by the contractor during execution of the work.

13. Inspection and Approval:

All work embracing more than process shall be subject to examination and approval at each stage thereof and the Contractor shall inform to the Officer-in-Charge or his authorized representative when each stage is ready. The Officer I/c or his representative shall have powers at any time to inspect and examine any part of the Works.



14. Liquidated Damages for Delay

Time is essence of the contract. In case the contractor fails to complete the whole work within the stipulated period, and clear the site, he shall be liable to pay liquidated damages @ 1.0% (One per cent only) of the value of contract per week and or part thereof of the delay subject to a maximum of 10% (Ten per cent only) of the value of the contract. The amount of Compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the MPPCB.

15 Instruction and Notices:

15.1 Subject as otherwise provided in this contract, all notices to be given on behalf of the MPPCB and all other actions to be taken on its behalf may be given or taken by the Officer I/c or any officer authorized by him/her.

15.2 All instructions, notices and communications, etc., under the contract shall be given in writing.

15.3 Fore closure of Contract in Full or in Part due to Abandonment or Reduction in Scope of Work :

If at any time after acceptance of the tender the MPPCB shall decide to abandon or reduce the scope of the works for any reason whatsoever and hence not require the whole or any part of the Works to be carried out, the Officer I/c shall give notice in writing to that effect to the Contractor and the Contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

15.4 The Contractor shall be paid at Contract rates full amount for works executed at Site as certified by the Officer-in-Charge.

16 Cancellation of Contract in Full or in Part:

If the Contractor :

- a) At any time makes defaults in proceeding with the Works with negligence and continues to do so even after a notice in writing of 7 days by the Officer I/c; or
- b) Commits default in complying with any of the terms and conditions of Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Officer I/c ; or
- c) Fails to complete the works or items of work on the date of completion, and does not complete them within the period specified in a notice given in writing in that behalf by the Officer- in-Charge; or
- d) Violates any of the terms and conditions stipulated in this agreement.



17 Urgent Works:

If any work becomes urgent or necessary and Contractor is unable or unwilling at once to carry it out, the Officer I/c may by other workpeople carry it out, as he may consider necessary. If this work shall be such as the Contractor is liable under the contract to carry out at his expenses, the expenses incurred on it by the MPPCB shall be recoverable from the Contractor and be adjusted or set off against any sum payable to him.

18 Valuation and Payment:

Records and Measurement:

18.1 The Officer-in-Charge / Project evaluation committee shall ascertain and determine by measurement the value in accordance with the contract work done in accordance therewith.

18.2 All the measurements shall be taken jointly and signed by both the parties. For measurement, the provision in the relevant Standard Method of Measurement or any general or local custom may be considered. With regards to measurement variations, the decision taken by the Project evaluation committee / Officer in-charge shall be final.

18.3 Payment will be made on actual measurement as carried out at the site after completion of work. The quantities given in the schedule of quantities are only approximate and contractor will have to carry out the work as per the increased/decreased quantity of work as per the directions of Officer I/c, for which no extra claim over and above the tender rate will be considered.

18.4. All statutory deductions as applicable like TDS, sales tax/VAT, if any, shall be made from the due payment of the contractor.

Special Condition :

- Efforts shall be made to follow the Energy Conservation Building Code (ECBC) and to comply with the Green Rating system of buildings in the above renovation work.

Sd/—
Member Secretary



FORM OF TENDER

To

**The Member Secretary,
M.P. Pollution Control Board,
Sector E-5, Paryawaran Parisar,
Arera Colony, Bhopal – 462016 (M.P.)**

I/We have read and examined the following documents relating to Repair and Renovation of Exterior Part of Office Building at Paryawaran Pasrisar, Sector E-5, Arera Colony, Bhopal -16

- a). Notice inviting tender.
- b). Instructions to Tenderers
- c). Technical Specifications
- d). General and Special Conditions of Contract including Contractors, Labour Regulations and relevant Safety Code appended etc.
- e). Bill of Quantities

I/We hereby tender for execution of the works referred to in the aforesaid documents on terms and conditions contained or referred to therein and in accordance in all respects with the specifications, designs, drawings and other relevant details at the rates contained in Schedule and within the period of completion as stipulated.

In consideration of I/We being invited to tender, I/We agree to keep the tender open for acceptance for 120 days from the due date of submission thereof and not to make any modifications in its terms and conditions which are not acceptable to the MPPCB.

A sum of Rs 25,000/- is hereby submitted as Earnest Money Deposit in the form of Demand Draft (No. dated) in favour of Member Secretary, M.P. Pollution Control Board” payable at Bhopal . If I/We fail to keep the tender open as aforesaid or make any modifications in the terms and conditions of the tender which are not acceptable to the MPPCB, I/We agree that the MPPCB shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Should this tender be accepted, I /We agree to abide by & fulfill all the terms conditions of aforesaid document.



If, after the tender is accepted, I/we fail to commence the execution of the work as provided in the conditions. I/We agree that MPPCB shall without prejudice to any other right or remedy is at liberty to forfeit the said earnest money absolutely.

(Signature of Contractor)

**Duly authorized to sign the tender on behalf
of (if applicable) :**

Date

Witness

Date

Address / Phone No.
.....
.....



APPENDIX - I

S.No.	Description	Qty.	Unit	RATE	AMOUNT
01.	Providing & fixing pressed clay tile (Mangalore tile) 20 mm nominal thickness and of approved size and as per approved pattern ceiling on steel frame work complete (steel frame work to be paid separately). (SOR It. No. 12.40 Page No. 46) $2x2x13.10Mx8.50M = 445.40M^2$	445.40	Sqm		
02.	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50metres lead : 14.1 With cement mortar 1:4 (1cement: 4 coarse sand). (SOR It. No. 14.1 Page No. 52) L.S. 200.00 Sqm	200.00	Sqm		
03.	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead. (SOR It. No. 15.48 Page No. 57)				



No.	Description	Qty.	Unit	RATE	AMOUNT
	200.00 Sqm	200.00	Sqm		
04.	Renewing glass panes, with putty and nails wherever necessary: 14.5.1 Float glass panes of thickness 4 mm (SOR It. No. 14.5.1 Page No. 52) Ventilator : 2x3x1.50x0.40M = 3.60 M ² W. Glass : 6x5x0.35x0.45M = 4.72 M ² 8.32 M ²	8.32	Sqm		
05.	Welding by gas or electric plant including transportation of plant at site etc. complete. (SOR It. No. 10.22 Page No. 74) 1x1000 Cum = 1000 Cum	1000.00	Cum		
06.	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm 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. 10.5.2 Using flats 30x6mm for diagonal braces and central cross piece. (SOR It. No. 10.5.2 page No. 34) 2x0.90x2.00M = 3.60 Sqm	3.60	Sqm		
07.	Providing and fixing fly proof galvanised M.S. wire gauge to windows and clerestory windows using galvanised M.S.				



No.	Description	Qty.	Unit	RATE	AMOUNT
	wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm. 9.51.1 With 2nd class teak wood beading 62X19 mm. (SOR It. No. 9.51.1 Page No. 21) 5x0.90x2.00M = 9.00 M ²	9.00	Sqm		
08.	Providing and fixing 4mm thick coir veneer board, ISI marked IS : 14842 - 2000, plain lining with necessary screws, priming coat on unexposed surface etc., complete. (SOR It. No. 9.38 page No. 20) 2x3x0.90x2.00M = 10.80 M ²	10.80	Sqm		
09.	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters : 9.21.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. (SOR It. No. 9.21 Page No. 18) 1x2x0.90x2.00M = 3.60 M ² 1x2x0.70x2.00M = <u>2.80 M²</u> 6.40 M ²	6.40	Sqm		
10.	Providing and fixing panelled or panelled				



No.	Description	Qty.	Unit	RATE	AMOUNT
	and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding, panelling which will be paid for separately.				
	9.5.2 Kiln seasoned and chemically treated Hollock wood.				
	9.5.2.2 30 mm thick shutters (SOR It. No. 9.5.2.2 Page No. 16)				
	Opening Door :				
	1x2x0.90x2.00M = 3.60 M ²				
	Toilet Door :				
	1x2x0.70x2.00M = <u>2.80 M²</u>				
	6.40 M ²	6.40	Sqm		
11.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.1 With 20mm nominal size graded stone aggregate.				
	4.1.1.3 M 15 (SOR It. No. 4.1.1.3 Page No. 4)				
	Front Passage :				
	1x13.10Mx8.80x0.10 = 11.52 M ³				
	1x16.75x4.90x0.10M = <u>8.20 M³</u>				
	19.72 M ³	19.72	Cum		
12.	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :				
	9.62.2 250x16 mm				



No.	Description	Qty.	Unit	RATE	AMOUNT
	(SOR It. No. 9.62.1, 2 Page No. 22) 2x2 = 4 Nos.	4 Nos.	Each		
13.	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : 9.63.3 150x10 mm (SOR It. No. 9.63.3 Page No. 51) 2x2 = 4 Nos.	4 Nos.	Each		
14.	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 9.66.1 125 mm (SOR It. No. 9.66.1 Page No. 22) 4x2 = 8 Nos.	8 Nos.	Each		
15.	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular section made of 1.60mm thick M.S. Sheet, joints mitred and welded and grinded finish profiles required size with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primers. (SOR It. No. 10.15 Page No. 36)				



No.	Description	Qty.	Unit	RATE	AMOUNT
	40mm & M.S. Pipe				
	2x2x6.00M = 24.00 M				
	1x2x3.00M = <u>6.00 M</u>				
	30.00 M				
	30M @ 5.20Kg/M = 156.00 Kg	156.00	Kg.		
16.	Providing & laying pressed clay tile ridge (Mangalore tile) of 20mm thickness of approved pattern ceiling over steel frame work complete (steel frame work to be paid separately). (SOR It. No. 12.41 page No. 46)				
	2x13.10M = 26.20 RM	26.20	RM		
17.	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. 15.7.4 In cement mortar (SOR It. No. 15.7.4 Page No. 55)				
	L.S. 5.00 Cum	5.00	Cum		
18.	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete (SOR It. No. 14.23 Page No. 53)	200.00	Sqm		
19.	Removing dry or oil bound distemper, water proofing cement paint and the like	200.00	Sqm		



No.	Description	Qty.	Unit	RATE	AMOUNT
	by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. (SOR It. No. 14.26 Page No. 53)				
20.	Applying one coat of cement primer of approved brand and manufacture on wall surface : 13.32.1 Cement primer (SOR It. No. 13.32.1 Page No. 49)	300.00	Sqm		
21.	Providing and applying special putty in two coats based materials varnish, Belgium chalk, turpentile oil, white paint, shafeda including sand papering for making the surface smooth for applying any or vinyl paints including all cost of material and labour etc complete. (SOR It. No. 13.69 Page No. 51)	300.00	Sqm		
22.	Providing & fixing chicken mesh as per ISI specification and in the required with 50mm long Bombay nails on vertical and horizontal junctions of RCC and brick wall including scaffolding and all lead and lift etc. complete before plastering upt 10 meter height. (SOR It. No. 13.68 Page No. 51)	20.00	Sqm		
23.	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers				



No.	Description	Qty.	Unit	RATE	AMOUNT
	<p>specifications :</p> <p>13.37.1 Two or more coats applied @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.</p> <p>(SOR It. No. 13.37.1 Page No. 49)</p> <p>$2 \times 2 \times 13.10 \text{M} \times 3.20 \text{M} = 167.68 \text{M}^2$</p> <p>$2 \times 2 \times 12.80 \times (5.20 + 2.30) \times 2.30 = 166.91 \text{M}^2$</p> <p style="text-align: center;">2</p> <p>$1 \times 2 \times (3.10 + 3.10) \times 2.30 \text{M} = 28.52 \text{M}^2$</p> <p style="text-align: center;">2</p> <p style="text-align: right;">363.11 M²</p>	363.11	Sqm		
24.	<p>Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :</p> <p>14.25.1 Old work (one or more coats)</p> <p>(SOR It. No. 14.25 Page No. 53)</p>	100.00	Sqm		
25.	<p>Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :</p> <p>14.31.1 One or more coats on oldwork.</p> <p>(SOR It. No. 14.31.1 Page No. 53)</p>	200.00	Sqm		
26.	<p>Brick work with well burnt chimney bricks in bulls patent trench kiln manufactured by ghol process ,cru shing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth</p> <p>6.1.2 Cement mortar 1:6 (1 cement : 6</p>	2.00	Cum		



No.	Description	Qty.	Unit	RATE	AMOUNT
	sand) (SOR It. No. 6.1.2 page No. 8)				
27.	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: 15.27.2 Asbestos sheet (SOR It. No. 15.27.2 Page No. 56) 10x2No.x3.00x1.00M = 60.00M ²	60.00	Sqm		
28.	Providing non-asbestos high impact Polypropylene reinforced cement 6mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia.G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses: corrugated sheets and including cutting to size and shape wherever required. (SOR It. No. 12.8 Page No.42)	60.00	Sqm		
29.	Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete. 12.12.1 Corrugated serrated adjustable ridges (SOR It. No. 12.12.1 Page No. 42)	26.20	RM		
30.	Providing and laying in position cement				



.No.	Description	Qty.	Unit	RATE	AMOUNT
	<p>concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :</p> <p>4.1.1 With 20mm nominal size graded stone aggregate.</p> <p>4.1.1.4 M 10</p> <p>(SOR It. No. 4.1.2.1.4 Page No. 4)</p> <p>1x13.10x8.80x0.10M = 11.52M³</p> <p>1x16.75x4.90x0.10M = 8.20 M³</p> <p>19.72 M³</p>	19.72	Cum		
30.	<p>Grading roof for water proofing treatment with</p> <p>22.14.1 Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)</p> <p>(SOR It. No. 22.14.1 Page No. 91)</p>	2.00	Cum		
31.	<p>Providing & laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete.</p> <p>The vital physical and chemical</p>				



S.No.	Description	Qty.	Unit	RATE	AMOUNT
	<p>parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane: (with 5 yrs. service gurantee).</p> <p>22.20.1 3 mm thick (SOR It. No. 22.20.1.3 Page No. 91)</p>	100.00	Sqm		
32.	<p>Painting with aluminium paint of approved brand and manufacture to give an even shade .</p> <p>13.51.1 Two or more coats on new work (SOR It. No. 13.51 Page No. 50)</p>	100.00	Sqm		

