

NAME OF WORK :		Maintenance and Repair works in Sri Meenakshi Government Arts College For Women at Madurai.				
		Schedule - A				
EMD: - Rs. 1,98,000/-					Date: 03.05.2022	
		CIVIL WORK				
1	Apprximate quantity	Dismantling, clearing away and carefully stacking materials useful for re-use for any thickness for remove of following.,complete complying with standard specification.		Rate in figure and in words	Unit	Amount
a	30 M <sup>3</sup> (Thirty cubic metres)	Brick work in CM walls under 3m high and as direccted by departmental officers.	24 & 25 V, VI S2		1 M <sup>3</sup> (One cubic metre)	
b	175 M <sup>2</sup> (One hundred and seventy five square metres)	Chipping the concrete & roughening the surface and as direccted by departmental officers.	24 & 25 V, VI S2		1 M <sup>2</sup> (One square metre)	
c	865 M <sup>2</sup> (Eight hundred and sixty five square metres)	Removing the old Plastering surface and as direccted by departmental officers.	24 & 25 V, VI S2		1 M <sup>2</sup> (One square metre)	

d	4870 M <sup>2</sup> ( Four thousand eight hundred and seventy square metres)	Old floor tiles and as directed by departmental officers.	30(S) 86 86 A V, VI (S3) VII		1 M <sup>2</sup> (One square metre)	
e	325 M <sup>2</sup> (Three hundred and twenty five square metres)	Removing old pressed tiles and as directed by departmental officers.	30(S) 86 86 A V, VI (S3) VII		1 M <sup>2</sup> (One square metre)	
f	18520 M <sup>2</sup> (Eighteen thousand five hundred and twenty square metres)	Scrapping the wall old surface painting and as directed by departmental officers.			1 M <sup>2</sup> (One square metre)	
2	355 M <sup>3</sup> (Three hundred and fifty five cubic metres)	Supplying and Filling in foundation and basement with <b>gravel</b> in layers of not more than 15cm thick well rammed watered and consolidated etc., complete complying with standard specification and as directed by the departmental officers.	28 VI.8.2.8 .3. VI (S5A) 4.2.1.3		1 M <sup>3</sup> (One cubic metre)	
3	355 M <sup>3</sup> (Three hundred and fifty five cubic metres)	Supplying and filling the foundation and basement with filling M-sand in layers of not more than 15cm thick well rammed, watered and consolidated as directed by the Departmental Officers complete complying with standard specification.	28 VI.8.2.8 .3. VI (S5A) 4.2.1.3		1 M <sup>3</sup> (One cubic metre)	

4	105 M <sup>2</sup> (One hundred and five square metres)	Brick partition wall using third class country bricks of size 8 3/4 " x 4 1/4 " x 2 3/4" in cement mortar 1:3 (One cement and three sand) using hoop iron reinforcement if found necessary including plastering 1:5 (One cement and five sand) 12mm thick on both side as directed by the Departmental officers. (In Ground floor)			1 M <sup>2</sup> (One square metre)	
5	128 M <sup>3</sup> ( One hundred and twenty eight cubic metres)	Brick work in cement mortar 1:5 (One cement and six sand) using third class country bricks of size 8 3/4 " x 4 1/4 " x 2 3/4" including finishing and curing as directed by the Departmental Officers complete complying with standard specification.			1 M <sup>3</sup> (One cubic metre)	
6	39 M <sup>3</sup> ( Thirty nine cubic metres)	Cement concrete of mix 1:5:10 (One cement, five sand and ten aggregate) using 40mm size ISS gauge hard broken granite stone for foundation including all incidental charges dewatering if found necessary and laid in layers of not more than 15cm thick, finishing and curing as directed by the Departmental Officers complete complying with standard specification.			1 M <sup>3</sup> (One cubic metre)	
7	460 M <sup>2</sup> (Four hundred and sixty square metres)	Finishing the top of flooring with granolythick floor finish of following thickness with plain cement concrete of mix 1:2:4 (One cement, two sand and four aggregate) using 10 to 12mm ISS gauge hard broken granite stone including finishing the top smooth and forming thread lining and curing as directed by the Departmental Officers complete complying with standard specification. 25mm thick	SS86& 86A V, VI (S3) (S6) VII		1 M <sup>2</sup> (One square metre)	

8	42 M <sup>2</sup> (Forty two square metres)	Supplying and erecting steel centering including supports for <b>plain surfaces such as RCC etc.</b> in foundation and basement and in all floors for reinforced cement concrete works such as for square or rectangular column, grade beam, staircase steps, bad block etc. which require only nominal strutting using M.S.sheets of size 90cmx60cm B.G.10 stiffened with mild steel angles of size 25x25x3mm for boarding laid over silver oak joists of size 10x 6.5cm spaced at about 90cm centre to centre and supported by casurina props of 10cm to 13cm dia spaced at 75cm centre to centre at suitable intervals etc. complete complying with standard specification.	31 & similar to 31C V, VI (S5) VII		1 M <sup>2</sup> (One square metre)	
9		Reinforced Cement concrete of M20 grade conforming to IS 456/2000 for reinforced Cement concrete structural elements by adopting weight basis using good quality of ISI cement under contrlled water cement ratio using 20mm and downgraded machin broken granite stone jelly excluding the cost of centering shuttering and reinforced grilles placed in position but including fixing the fan clamps in the floor slabroof slab works wherever necessary and pumping/bosster pumps at required at different floors,including conveyance,laying,leaveling curing,testing charges per IS 456/2000 with amendment issud in 2007 ect., complete complaying with standard specification and as directed by the departmental officers in all floors.				
a	35 M <sup>3</sup> (Thirty five cubic metres)	In ground floor			1 M <sup>3</sup> (One cubic metre)	

10	18 Qtl (Eighteen quintal)	Supplying, fabricating and placing in position of mild steel or ribbed tor steel grill for all reinforced cement concrete works including cost of steel and G.I. binding wire as directed by the Departmental Officers complete complying with standard specification.	SS 56 & 57		1 Qtl (One quintal)	
11	600 M <sup>2</sup> ( Six hundred square metres)	Paving the floor with best approved quality fine polished Kotta Stone slabs of size 610 x 610 x 20mm with combination of Marble strips of 18/20mm thick for border with machine cut edges at the proportion of 9:1 laid over a cement mortar bed of 20mm thick using cement mortar 1:3 (One cement and three sand), fixing the slabs in true right angles with minimum possible width of joints and pointing the joints with cement mortar 1:3 (One cement and three sand), white cement shall be used for slurry and pointing for marble slab portion at rate of 1.80Kg/Sq.m and polishing with floor polisher to a high degree of finish and curing etc., complete complying with standard specification.	SS 56 & 57		1 M <sup>2</sup> (One square metre)	
12	3830 M <sup>2</sup> ( Three thousand and eight hundred and thirty square metres)	Finishing the floor with new Vitrified tiles of approved quality and colour of size 600x 600 x 10mm for flooring in all floors over a base layer of cement mortar 1:3 - 20mm thick and pointing with white cement using 0.30kg of white cement per square metre including adding suitable colour pigments to suit the colour of tiles are finishing perfectly and curing as directed by the Departmental Officers including cost of tiles, all materials and incidental charges, transportation charges and labour charges for laying tiles as directed by the Departmental Officers complete complying with standard specification.The tiles should be got approved by the Departmental Officers before use on work.	SS 56 & 57		1 M <sup>2</sup> (One square metre)	

13	160 M <sup>2</sup> ( One hundred and sixty square metres)	Paving the floor with Designed coloured glazed Ceramic tiles of approved quality and all colours of size 305x305x6mm for flooring in all floors over a base layer of cement mortar 1:3 (One cement and three sand) 20mm thick and pointing with white cement using 0.30 Kg.of white cement per square metre including adding suitable colour pigments to suit the colour of tiles finishing perfectly and curing as directed by the Departmental Officers including cost of tiles, all materials and incidental charges, transportation charges and labour charges for laying tiles as directed by the Departmental Officers complete complying with standard specification.The tiles should be got approved by the Departmental Officers before use on work.	Spl		1 M <sup>2</sup> (One square metre)	
14	80 M <sup>2</sup> ( Eighty square metres)	Paving the floor with cement based <b>hydraulically pressed anti-skid step tiles</b> (like Eurocan tiles) in cement mortar 1:3 -20mm thick and pointing with white cement using 0.40kg/m <sup>2</sup> per one square metre including adding suitable colour pigments to suit the colour of tiles neat finishing and curing etc., complete complying with standard specifications.	Spl		1 M <sup>2</sup> (One square metre)	
15	380 M <sup>2</sup> (Three hundred and eighty square metres)	Finishing the top of roof with one course of <b>Machine pressed tiles of size 23x23x2cm</b> of approved quality laid in cement mortar 1:3 (One cement and three M-sand) 12mm thick mixed with water proofing compound (confirming to Indian standard specification) <b>2% by weight</b> of cement used and pointed with the same mortar including mixing of red oxide and water proofing compound etc., complete complying with standard specification and as directed by the departmental officers.	Spl		1 M <sup>2</sup> (One square metre)	

16	450 M <sup>2</sup> (Four hundred and fifty square metres)	Finishing the top roof with one course of <b>solar reflecting ceramic tiles</b> of size 305x305x7mm thick of approved quality set in cement mortar 1:3 (One cement and three sand) (12mm thick ) and mixed with for 10M2 / 4.00 kg Epoxy Packing conforming to ISS including curing etc., complete complying with standard specification and as directed by the Departmental officers.	Spl		1 M <sup>2</sup> (One square metre)	
17	4660 M <sup>2</sup> (Four thousand six hundred and sixty square metres)	Cleaning the pressed tiles surface from algae and dust using water, and pointing wherever necessary with using NITO BOND (OR) SBR by FOSROC make with mixing of white cement, and if any damages in press tiles and replace new tile for same, using pressure grouting if any weakness points only. Applying of three coats of rain coats using NITO BOND AR (OR) SBR mixing of water @ ratio and applying one coat of primer two coat milk white colour polymer on the surface as well as fixing membrane in each and every wall floor joints followed by one extra coat of polymer (Green seal make) including all labour, materials and completions.	Spl		1 M <sup>2</sup> (One square metre)	
18	45 M <sup>2</sup> (Forty five square metres)	Supplying and fixing Granite slab of size 1200 X 600mm and above (8 X20mm thick) in all floors in CM 1:3, 20mm thick Granite slab (Ruby Red/Raw Silk/Jet Black) 20mm thick for work table in CM 1:3 20mm thick and pointing with white cement of 22kg/ 10m2. The joint should be pointed to full depth of slabs with white cement including polishing with electric polisher to a high degree so as to make perfectly smooth and shining. The rate includes cost of Granite stones, taxes, transportation charges, cost of all materials etc., complete.,	Spl		1 M <sup>2</sup> (One square metre)	
19	110 M <sup>2</sup> (One hundred and ten square metres)	Labour charges for finishing the top of working tables and staircase step portion with <b>nosing</b> arrangements in Granite slab tiles including cutting the edges and polishing including cost of polishing materials complete complying with standard specification and as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	

20	45 M <sup>2</sup> (Fourty five square metres)	Supplying and Fixing <b>New Cuddappah slab fine polished</b> of approved quality of 38 / 40mm thick including cost of cuddappah slab for cupboards, transportation to work site, labour charge for forming grooves in masonry if necessary and laying the slab in position with cement mortar 1:3 (One cement and three sand) etc., complete complying with standard specification and as directed by the departmental officers.	Spl		1 M <sup>2</sup> (One square metre)	
21	1040 M <sup>2</sup> (One thousand forty square metres)	<b>Plastering with cement mortar 1:5</b> (One cement and five sand) 12mm thick in all floors including finishing and curing as directed by the Departmental Officers complete complying with standard specification.	Spl		1 M <sup>2</sup> (One square metre)	
22	605 M <sup>2</sup> (Six hundred and five square metres)	<b>Special ceiling plastering</b> in all floors and finishing the exposed surface of RCC items of work such as slab, beam, sunshade, facia, canopy slab, staircase waist slab, landing slab etc., with cement mortar 1:3 (One cement and three P-sand) 10mm thick including hacking the surfaces and providing cement mortar nosing, beading for sunshade, staircase, step, landing slab etc., including neat finishing and curing etc., complete complying with standard specification and as directed by the departmental officers.	Spl		1 M <sup>2</sup> (One square metre)	



23	121 M <sup>2</sup> (One hundred and twenty one square metres)	Supplying and fixing in position of <b>Aluminium anodised colour matt finish openable cupboard</b> of size 1.20 x 2.10 m in all floors fixed with 12mm thick prelaminated particle board (Exterior grade) the outer frame of section 38 x 33 x 2.12 mm @ 0.706 kg/m, shutter frame of 38.5 x 33 x 3 mm @ 0.706 kg/m, Interlocking mullion vertical section of 59 x 33 x 2.5 mm @ 1.135 kg/m. The shutter is fixed with 6 nos. Aluminium hinges, 100 x 30 mm of 2 nos. D type handle 100mm long and 2 nos. of cupboard lock etc, eith necessary furniture fittings including cost of labours, power consumption charges required for fabrication including necessary chipping, dismantling and making necessary holes in the RCC colimns beams, masonry etc., with power drill to the required depth and redoing the same to the original condition after fixing etc., complete complying with standard specification.			1 M <sup>2</sup> (One square metre)	
24	157 M <sup>2</sup> ( One hundred and fifty seven square metres)	Fabricating Supplying and fixing in position of Aluminium anodised natural colour matt finish 1/3rd fixing glazing and 2/3rd prelaminated board of Aluminium partition. The outer frames Outer frame : 63.50 x 38 x 3mm@ 1.72 Kg/m, Centre mullions : 65.30 x 38 x 3mm@ 1.55 Kg/m, Alu.clips : 17.27 x 17.15 x 1.50mm@ 0.175 Kg/m for intermediate vertical mullion 90cm c/c. Horizontal mullion at 1.00m 2.10m covered with 5.5mm thick plain glass with necessary aluminium clips of size 17.27 x 17.15 x 1.50mm@ 0.176 Kg/m and with required rubber beading and in the bottom portion 12mm thick MDF Board exterior gradevboth side Prelaminated are placed. Necessary dismantling holes in in RCC Column, masonry wherever necessary with power drills to the extent required and made the damaged portion in good condition after fixing as directed by the departmental officers. All the aluminium sections should be anodised not less than 15 microns as ISI 1868/1962 and should be got approved by the Executive Engineer before fixing in position.			1 M <sup>2</sup> (One square metre)	

25	10.10 M <sup>2</sup> (Ten point one zero square metres)	Supplying Fabricating and Fixing in position of single leaf aluminium anodized natural colour matt finish door with frame using frame section 101.64x44.45x3.18mm for vertical style and horizontal piece, shutters section for top, middle and vertical style of size 50x44.45x2.50mm board section of size 100x44.45x2.50mm half glazed 5.50mm thick and half PLB board 12mm thick glazed door using rectangular aluminium box section with necessary accessories such as rubber beading, aluminium chips, best double action door closer with handles, locks and glass etc., including all materials, labour and power consumption charges required for fabrication if necessary chipping, dismantling making necessary holes in RCC columns, beams or masonry wherever necessary with power drill to the extent required and made good to the original condition after fixing etc., complete. The aluminium surface should be anodized with matt finish under electrically controlled condition in accordance with ISI specification 1868/1962 of anodic film thickness of not less than 15 microns for all sections. All the materials should be got approved by the Executive Engineer before fixing in position and as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	
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26	37.50 M <sup>2</sup> (Thirty seven point five zero square metres)	Supplying, fabricating and fixing in position Aluminium Anodised natural colour mat finish Three track sliding window in all floors with Aluminium sections of Outer Frame bottom 92.34x46.00x1.50@1.637 kg/m,Top & vertical 92.34x29.70x1.50 at 1.066 kg/m, Shutter vertical 39x20x1.50 at 0.493 kg/m,Top & Bottom 39x20x1.50mm at 0.439 kg/m,Vertical locking arrangement 40x28x1.50 at 0.632 kg/m, the following sizes with necessary accessories such as rubber beadings, special hinges, lock, handle including supplying and fixing 4mm thick plain glass including cost of all materials , labours, power consumption required for fabrication , drilling holes in RCC column, slab, masonry walls wherever necessary with power drills to the required extent and make good to the original condition after fixing and also as directed.The aluminium sections are to be anodised with matt finish under electrically controlled in accordance with IS 1868 / 1962 for an average anodic film thickness 15 microns etc., complete.			1 M <sup>2</sup> (One square metre)	
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27	240 M <sup>2</sup> (Two hundred and fourty square metres)	Supplying, fabricating, erecting fixing and finishing the Gypboard false ceiling using best quality fully plain Gypboard tubes of 10 mm thick suspended from the existing R.C.C slab by forming a Grid of 1220mm centre to centre (c/c) in both direction and vertical drop using 6 mm dia Mild steel rod. The vertical 6 mm dia Mild steel rod should be suspended from the R.C.C ceiling using T.W. plug and with hook arrangements at 1220 mm c/c on both direction and the other end of the 6 mm rod at bottom should be threaded and bolted after forming the Grid false work. the Gird work should be supported by intermediate runner using 20x50x20 mm channel made out of 22 gauge G.I sheet should be fixed to the hanging 6 mm M.S rod using bolts and nuts and the intermediate runner are to be further supported alround the wall by providing perimeter channel of size 20x25x20 mm made out of 24 Gauge G.I sheet by drilling the walls at 450 mm c/c and fixing with necessary T.W plugs and screws by arranging this frame work necessary ceiling section of "r" shaped G.I section of size 80x50mmx0.55mm at 1220 mm c/c specially made to receive thefalse ceiling board hangered from the intermediate runner already by means of G.I clips at 610 mm c/c. The Gypboard should be screwed to the ceiling section by means of powder coated star screws and pointing paper etc.The joints of Gypboard already laid should be covered or jointed using best quality jointing paste / compound necessary cut out openings for housing light points / speakers / A.C. vent etc,are to be provided at the required location specified and finished wherever necessary.			1 M <sup>2</sup> (One square metre)	
28	96 RM (Ninty six running metre)	Supply and fixing Gypboard based and approved design of cornice of 100 x 60 mm etc complete and as directed by the departmental officers.			1 RM (One running metre)	

29	18450 Kg (Eighteen thousand four hundred and fifty Kilogram)	Fabricating, Supplying and fixing mild steel grill /door of various sizes including required steel outer frames conforming to ISI.specifications and as per the designs furnished and as directed by the Departmental Officers, including one coat of red oxide primer.The rate is inclusive of cost of all materials, taxes,labour charges, for fabrication,welding charges, finishing, assemble condition at site, fixing in position.Complete.			1 Kg (One kilogram)	
30	120 M <sup>2</sup> (One hundred and twenty square metres)	Pre-Painted Galvanized Iron Windows (Air Tight Model) with Grill and Glass: Providing and fixing Ajanta Cave Model Window fabricated from roll formed sections made of galvanized steel colour coated / powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.60mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: Section for shutter should be of 46mm x 46mm and external frame should be of 46mm x 52mm. Section for glass beading should be of 18mm x 25mm and Center mullion should be 46mm x 70mm. Fixing details: The frame and shutter sections should be cut to length, joined with corner brackets made of CRCA electro plated. Mullion section should be joined with frame / mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter between frame and glazed shutter and both sides of fixed glass. Accessories: Handle made of high grade aluminium powder coated and with nylon reciever. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon. Glass: Glass shutter and fixed glass portion should be provided with a glass of 5mm plain float glass. Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. total grill unit should be power coated and fixed to window frame with screws. The above frame should be fixed to brick/concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screwa into the caps through frames.			1 M <sup>2</sup> (One square metre)	

31	18 M <sup>2</sup> (Eighteen square metres)	Supplying and fixing in position of 35mm thick solid core flush door shutters <b>double leaf</b> with following specification. with TW ply on both sides and with TW lipping of size 35x12mm on all edges with necessary adhesives and C.P. Screws Alu. Butt Hinges (6 nos. 250 x 16 mm Size) Alu. Aldrop1 No. 250 x 16 mm Size, Alu. Tower Bolt 2 No. 250 x12 mm size, alu. Tower Bolt 2 No. 200 x 12 mm size, D type alu. Handle 200mm length 2 No., alu. door stopper with rubber bush 2 No. shall be provided, as directed by the departmental officers etc., complete.	Spl		1 M <sup>2</sup> (One square metre)	
32	100 M <sup>2</sup> (One hundred square metres)	Manufacturing, Supplying and Fixing in position of M.S steel window with following specifications. The outer frame of window made out "Z" section (F7D) of size 33x25x3mm at 1.419 Kg/m and mullion of "J" section (F4B) of size 45x25x3mm at 2.28 Kg/m. Shutter made out of (F7D) section of size 33x22x3mm at 1.419 Kg/m. Each openable shutter should not be exceeded a width 600mm to enable separate operations and easy maintenance. 2Nos. of sturdy hinges and one number of handle cum latch of special type make with 18x5 MS flat are revetted to the shutters of an appropriate height in each window shutter. Suitable opening is left for its easy operation. A stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. Each shutter having an adjustable window stay made out of 18mmx5mm at 0.70 kg/m MS flat of length 320mm with free adjustable positions. A matching peg is provided in the outer frame of the window, at suitable place, 4Nos of holdfasts of 200mm length MS angle 40x40x6mm the ends are welded to the outer frame of the window, 18 mmx 5 mm at 0.70 kg/m MS flat is welded to the shutter at two places, equal distance from each other from top and bottom of the shutter. 18 gauge cold rolled sheet of superior quality is laid as panel in the shutter frames and welded intact. Stiffeners with 18x5mm at 0.70 kg/m MS flat of suitable length welded diagonally to all four corners of each openable shutter to hold the CR sheet in position firmly. MS square bars of 12mm size is welded to the inner face of the window at equal intervals not exceeding 100mm edge to edge between them. All members are painted with one coat of anticorrosive red oxide primer as directed by the departmental officers. All sections used should confirm to IS 7542 / 1990. The rate includes cost of all materials, labour charges, transportation to taxes and other incidental charges etc. complete.			1 M <sup>2</sup> (One square metre)	

33	100 M <sup>2</sup> (One hundred square metres)	Removing and Refixing the old damaged country wood glazed window shutter and as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	
34	35 M <sup>2</sup> (Thirty five square metres)	Supplying and fixing the FRP door Shutter with <b>FRP door</b> frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and solid core FRP shutter Panel of 5mm thick and hollow core frames of 3m wall thickness for styles and rails etc., of sizes specified by Engineers. (The FRP Door shutter should be got approved by the Executive Engineer before use on work)			1 M <sup>2</sup> (One square metre)	
35	28550 M <sup>2</sup> (Twenty eight thousand five hundred and fifty square metres)	Painting the <b>old walls</b> one coats with best Oil bound distemper of approved quality (to be approved by the Executive Engineer before use on works) over one coat of primer for newly plastered wall including preparation of surface and finishing neatly including cost of all materials, brushes, scaffolding charges etc., complete complying with standard specification and as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	
36	18520 M <sup>2</sup> (Eighteen thousand five hundred and twenty square metres)	Painting the walls with Two coats with first class quality Plastic Emulsion paint of approved colour over a priming coat including thorough scraping, clean removal of dirt etc., complete and including necessary plaster of paris, putty, wherever required. complete complying with standard specification.			1 M <sup>2</sup> (One square metre)	

37	1380 M <sup>2</sup> (One thousand three hundred and eighty square metres)	Painting the old <b>iron work such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats</b> of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat and including cost of painting materials, brushes, putty, preparation of surfaces and scaffolding charges etc., complete complying with standard specification and as directed by the departmental officer. (The quality and colour of paint should be got approved by the departmental officer before use on work).			1 M <sup>2</sup> (One square metre)	
38	940 M <sup>2</sup> (Nine hundred and forty square metres)	Painting the <b>new iron work with two coats</b> of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat and including cost of painting materials, brushes, putty, preparation of surfaces and scaffolding charges etc., complete complying with standard specification and as directed by the departmental officer. (The quality and colour of paint should be got approved by the departmental officer before use on work).			1 M <sup>2</sup> (One square metre)	
39	45 M <sup>2</sup> (Forty five square metres)	<b>Painting the new wood work two coats</b> with best approved first quality and colour of synthetic enamel paint over a priming coat of approved quality in all floors including cost of paint, labour and other materials like brushes, putty and scaffolding charges etc., complete complying with standard specification and as directed by the departmental officers. (The make quality and colour of paint should be got approved by the departmental officer before use on work).			1 M <sup>2</sup> (One square metre)	
40	2750 M <sup>2</sup> (Two thousand seven hundred and fifty square metres)	<b>Painting the old wood work two coats</b> with best approved first quality and colour of synthetic enamel paint over a priming coat of approved quality in all floors including cost of paint, labour and other materials like brushes, putty and scaffolding charges etc., complete complying with standard specification and as directed by the departmental officers. (The make quality and colour of paint should be got approved by the departmental officer before use on work).			1 M <sup>2</sup> (One square metre)	



41	21 M <sup>2</sup> (Twenty one square metres)	Supplying and fixing in position of 4mm thick plain glass for ventilators over the door. The rate includes cost of glass, labour charges for fixing in true position etc., complete complying with standard specification and as directed by the Departmental officers.			1 M <sup>2</sup> (One square metre)	
42	510 M <sup>2</sup> (Five hundred and ten square metres)	Re Varnishing the old wood work one coat with best shellac and with fine best varnish of approved quality varnish of teak wood natural finish including preparation of surfaces with sand papering in patty priming etc., complete complying with standard specification and as directed by the Departmental officers.			1 M <sup>2</sup> (One square metre)	
43	18 Nos (Eighteen numbers)	Supplying and fixing white Porcelain sink of size 600x450x200mm without C.I. bracket of approved quality with 32mm dia 'B' Class G.I Pipe and 32mm dia C.P Waste coupling and variety with all fittings including cost of Porcelain Sink, taxes, transportation to work site, labour charges for forming grooves in masonry if necessary and fixing the sink in position with cement mortar 1:3 (One cement and three sand) as directed by the Departmental Officers complete complying with standard specification.			1 No. (Each)	

44	17 Nos (Seventeen numbers)	Supplying and fixing in position best quality of approved make white glazed earthenware wash hand basin (without pedestal) of size 550x400mm with a pair of cast iron brackets , including cost of 15mm diameter brass chromium plated pillar tap, 32mm diameter C.P.waste, 32mm diameter PVC waste pipe with rubber plug and chain, 15mm diameter gun metal wheel valve, 15mm dia brass nipple, 15mm dia nylon connection etc. including fixing the wash hand basin in the wall in position with pair of C.I.brackets with teak wood plugs and screws and giving necessary water supply connection and painting the brackets with two coats of paint over a priming coat of anti-corrosive paint including testing for leakage etc., complete complying with standard specification and as directed by the departmental officers.(The wash hand basin and specials should be got approved by the departmental officers before use on work)			1 No. (Each)	
45	16 Nos (Sixteen numbers)	Supplying and fixing in position Indian water closet oriya type of size 580x440mm white glazed earthenware of approved quality with 'P" trap or 'S' trap conforming to IS 2556-Part XII with sand cushion and forming flooring alround the closet using 40mm broken brick jelly in lime concrete 1:2:5 (One part of lime, two parts of sand and five parts of brick jelly) 100mm thick and finishing the top to required slope and including giving necessary connection to PVC. pipes by dismantling brick masonry, reinforced cement concrete roof/floor slab and making good the disturbed portion to original condition without leakage etc. complete complying with standard specification and as directed by the Departmental Officers.(The Water Closet should be got approved by the Departmental Officers before use on work)The rate is inclusive of cost of 110mm dia PVC.Pipe 60cm long, all materials and labour charges.			1 No. (Each)	

46	4 Nos (Four numbers)	Supplying and fixing in position White Glazed european water closet of best quality and approved make with 100mm P or S trap with double flapped rigid PVC.seat cover with chromium plate brass hinges, including supplying and fixing PVC. Low level flushing tank 10 litre capacity of approved quality on wall with teak wood plugs, brass screws and 2 numbers 15mm dia gun metal wheel valve, 15mm dia nylon connection and giving necessary water supply connection as directed by the Departmental Officers. The rate includes cost of 100mm dia PVC.Pipe 60cm long including cost of 3 Kg.of white cement 6Kg.of cement, spunyarn, shellac, thread ball, teak wood plugs, brass screws 75mmx10mm.The European Water Closet and flushing tank should be got approved by the Departmental Officers before use on work.			1 No. (Each)	
47	12 Nos (Twelve numbers)	Supplying and fixing Indian Make White Glazed Lipped Mouth Flat Back Urinal with best quality and approved make using 32mm dia PVC. Bell mouth waste pipe, 15mm dia Gun Metal Wheel Valve for water connection and 15mm dia nylon brass nipple and fixing the urinal in position with necessary teak wood plugs and screws white lead etc. including dismantling masonry and redoing the same to the original condition. (The Urinal and fittings are to be got approved by the Exe.Engr. before use on work)			1 No. (Each)	
48	1195 M <sup>2</sup> (One thousand one hundred and ninety five square metres)	Supplying and laying of 63 mm thick high strength type of interlocking rubber moulded hydraulic pressed paver block of approved colour made up of designed concrete mix 1:1:2 using 10 to 12mm size HBG stone jelly in required shapes and sizes having minimum compressive strength of 40 N/mm <sup>2</sup> to be laid in flurrying bone pattern with approved non sticking surface at top. The rate is inclusive of levelling the site, compacting with power compactor and sweeping the sand grouting and also inclusive of transportation charges, loading, unloading and labour charges for laying the paver block, etc. complete and as directed by the departmental officers			1 M <sup>2</sup> (One square metre)	

49	125 M <sup>2</sup> (One hundred and twenty five square metres)	Supplying and installation of Ceramic Steel chalk writing board with the following specification. The 2mm GI Sheet is placed with wall side over the GI sheet necessary adhesive is spreaded and fixed the 9mm MDF board on the GI sheet 0.40mm thick ceramic steel chalk board is provided over the MDF board and the whole arrangements are fixed to the frame using heavy anodized Aluminium section and Chromium plated provided in the corners. The whole arrangement are fixed to the wall using wooden plugs and screws etc., The rate includes all above materials, labour charges and taxes etc., complete complying with standard specification and as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	
50	26 Nos (Twenty six numbers)	Fabricating supplying and fixing in position of 65mm dia G.I.Post of 3.80m height including necessary Earth work excavation, Plain cement concrete and fixing in position vertically with base plates and painting with two coats of synthetic Enamel paint over one coat of primer etc, complete.			1 No. (Each)	
51	475 Rm (Four hundred and seventy five running metre)	Fabricating supplying and fixing in position of M.S.Square pipe of size 75mm x40mm for Rafter including cost of all materials, fabrication, cutting and welding charges, painting with two coats of synthetic enamel paint over one coat of primer, conveyance charges etc, complete.			1 RM (One running metre)	
52	65 Rm (Sixty five running metre)	Fabricating supplying and fixing in position of M.S.Square pipe of size 40mm x40mm for Rafter including cost of all materials, fabrication, cutting and welding charges, painting with two coats of synthetic enamel paint over one coat of primer, conveyance charges etc, complete.			1 RM (One running metre)	

53	275 M <sup>2</sup> (Two hundred and seventy five square metres)	Supplying and fixing 0.50mm thick Alu. Zinc Alloy Coloured coated steel sheet of traffolded type in the existing steel truss with necessary lapping & 25mm self threading bolt with washers at 45cmc/c over the sheet etc. complete. The cost including sheet beading the sheet in curved shape SRIF threading bolt with washers, Transporting , scaffolding & fixing in position etc.complete.			1 M <sup>2</sup> (One square metre)	
54	5 Nos (Five numbers)	Supplying and Fixing of <b>PVC water tank</b> of approved quality with standard specification and best brand including testing for leakages after making installations and connections. The cost inclusive of lid and lock with bolt and nuts for PVC tank, transportation, loading, unloading, lifting, installation and necessary connections etc., complete complying with standard specifications and as directed by the departmental officers.(The PVC Water Tank should be got approved by the Executive Engineer before use on works).			1 No. (Each)	
55	1 No (One number)	Supply of 3 HP Submersible 3 phase motor pipe with duty (50x60 (Lpmm)) The Submersible motor should be coupled in a single moulded steel frame of required width and length. The steel frame should be fixed in the bed with necessary bolts and nuts as directed by the departmental officer. The rate included the cost of conveyance charges and all tax and making test run etc. complete. Necessary warranty card should be produced before erection of motor.			1 No. (Each)	
56	1 No (One number)	Supplying of three phase panel board for the following motor pump with fully automatic starter phase preventor, on & off switch indicator lamp,volta meter and ammeter with selector switch with suitable power capacity arranged in a steel sheet box as directed by the departmental officer etc. complete complying with standard specification. Upto 5 HP			1 No. (Each)	

57		Supplying and jointing UPVC Pipes (Having working pressure 10 kg /sq.cm)of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing upvc specials using upve adhesives(but excluding cost of such specials)and fixing into wall with teak wood plugs,pvc clamps and screws making holes on the wall (or) drilling holes in the roof and making good dismantled portion to original condition with necessary brick work /cement concrete and plastering neatly wherever necesssary scaffolding charges, ect.,complete complying with standard specification the upve pipe shall be got approved by executive Engineer before use on work				
		Below ground level				
a	100 Rm (One hundred running metre)	50mm dia UPVC pipe			1 RM (One running metre)	
b	200 RM (Two hundred running meter)	40mm dia UPVC pipe			1 RM (One running metre)	

58		Supplying and jointing UPVC Pipes (Having working pressure 10 kg /sq.cm)of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing upvc specials using upve adhesives(but excluding cost of such specials)and fixing into wall with teak wood plugs,pvc clamps and screws making holes on the wall (or) drilling holes in the roof and making good dismantled portion to original condition with necessary brick work /cement concrete and plastering neatly wherever necesssary scaffolding charges, ect.,complete complying with standard specification the upve pipe shall be got approved by executive Engineer before use on work				
		Above ground level				
a	110 RM (One hundred and ten running metre)	32mm dia UPVC pipe			1 RM (One running metre)	
b	300 Rm (Three hundred running metre)	25mm dia UPVC pipe			1 RM (One running metre)	
c	35 Rm (Thirty five running metre)	20mm dia UPVC pipe			1 RM (One running metre)	

59		Supplying and fixing in position first quality and approved variety Gun Metal Gate valve (Heavy type)/ Wheel Valve (Heavy Duty) with ISI Mark of approved quality of the following dia including cost of shellac, thread, labour charges for cutting, threading, fixing in position etc., for both internal and external water supply arrangements.				
a	3 Nos (Three numbers)	50mm dia GM Gate valve			1 No. (Each)	
b	4 Nos (Four numbers)	40mm dia GM Gate valve			1 No. (Each)	
c	6 Nos (Six numbers)	32mm dia GM Gate valve			1 No. (Each)	
d	8 Nos (Eight numbers)	25mm dia GM wheel valve			1 No. (Each)	



e	6 Nos (Six numbers)	20mm dia GM wheel valve			1 No. (Each)	
60	90 Nos (Ninty numbers)	Supplying and fixing in position 15mm dia Chromium Plated screw down Taps (heavy type) of best quality and approved make conforming to ISS and providing leak proof joints with thread and shellac etc., including fixing and connecting to the pipes etc., complete complying with standard specification and including cutting and threading wherever necessary. (Taps should be got approved by the departmental officer before use on work)			1 No. (Each)	
61	10 Nos (Ten numbers)	Supplying and fixing in position 15mm dia <b>Chromium Plated Swan Neck Taps</b> (heavy type) of best quality and approved make conforming to ISS and providing leak proof joints with thread and shellac etc., including fixing and connecting to the pipes etc., complete complying with standard specification and including cutting and threading wherever necessary. (Taps should be got approved by the departmental officer before use on work)			1 No. (Each)	
62		Supplying and fixing in position UPVC specials such as plain bend and shoe of various sizes of best approved quality conforming to ISS.and providing leak proof joints including fixing to wall and giving connection to the PVC. Pipes including,dismantling the brick masonry/RCC.floor or roof slab and redoing the disturbed portion to original condition etc.complete as directed by the Deptl.Officers complete complying with standard specification.				

a	10 Nos (Ten numbers)	50mm dia UPVC Elbow			1 No. (Each)	
b	8 Nos (Eight numbers)	50mm dia UPVC Tee			1 No. (Each)	
c	6 Nos (Six numbers)	50mm dia UPVC Hex nipple			1 No. (Each)	
d	5 Nos (Five numbers)	50x40mm dia UPVC Reducer			1 No. (Each)	
e	12 Nos (Twelve numbers)	40mm dia UPVC Elbow			1 No. (Each)	

f	8 Nos (Eight numbers)	40mm dia UPVC Hex nipple			1 No. (Each)	
g	7 Nos (Seven numbers)	40x32mm dia UPVC Reducer			1 No. (Each)	
h	10 Nos (Ten numbers)	32x25mm dia UPVC Reducer			1 No. (Each)	
i	15 Nos (Fifteen numbers)	25mm dia UPVC Elbow			1 No. (Each)	
j	12 Nos (Twelve numbers)	25mm dia UPVC Tee			1 No. (Each)	

k	8 Nos (Eight numbers)	25mm dia UPVC Hex nipple			1 No. (Each)	
l	20 Nos (Twenty numbers)	25x20mm dia UPVC Reducer			1 No. (Each)	
m	25 Nos (Twenty five numbers)	20mm dia UPVC Elbow			1 No. (Each)	
n	14 Nos (Fouteen numbers)	20mm dia UPVC Tee			1 No. (Each)	
o	25 Nos (Twenty five numbers)	20x15mm dia UPVC Reducer			1 No. (Each)	

63		Supply and fixing in position best quality PVC Soil/ waste pipes 6 kg / sqcm of various size (Below Ground Level) laid properly to alignment including cutting and fixing the required PVC specials but excluding the cost of such specials etc., complete.. (The PVC pipes shall be got approved by the Executive Engineer before use on works).having ISI mark and providing leak proof joints, complying with standard specification etc., complete.				
a	90 RM (Ninety running meter)	160mm dia PVC soil pipe			1 RM (One running metre)	
64		Supplying, laying and jointing <b>PVC soil / waste pipes</b> of approved and best variety conforming to IS. Specification with ISI. mark of the following sizes including, cutting and threading of PVC Pipes, fixing specials but excluding cost of such specials but including fixing to wall with necessary teak wood plugs, PVC clamps and screws making holes on the wall (or) drilling holes in roof and making good the dismantled portion to original condition with necessary brick work and plastering wherever necessary with necessary scaffolding charges. The PVC Pipes should be got approved by the Departmental Officers before use on work. <b>Above ground level.</b>				
a	60 RM (Sixty running meter)	110mm dia PVC soil pipe			1 RM (One running metre)	

b	50 RM (Fifty running meter)	75mm dia PVC soil pipe			1 RM (One running metre)	
65		Supplying and fixing in position PVC specials such as plain bend and shoe of various sizes of best approved quality conforming to ISS.and providing leak proof joints including fixing to wall and giving connection to the PVC. Pipes including,dismantling the brick masonry/RCC.floor or roof slab and redoing the disturbed portion to original condition etc.complete as directed by the Deptl.Officers complete complying with standard specification.				
a	8 Nos (Eight numbers)	160mm dia PVC Elbow			1 No. (Each)	
b	10 Nos (Ten numbers)	160mm dia PVC Tee			1 No. (Each)	
c	6 Nos (Six numbers)	160mm dia PVC Door Elbow			1 No. (Each)	

d	12 Nos (Twelve numbers)	110mm dia PVC Elbow			1 No. (Each)	
e	10 Nos (Ten numbers)	110mm dia PVC Tee			1 No. (Each)	
f	15 Nos (Fifteen numbers)	110mm dia PVC Door Elbow			1 No. (Each)	
g	8 Nos (Eight numbers)	75mm dia PVC Elbow			1 No. (Each)	
h	6 Nos (Six numbers)	75mm dia PVC Tee			1 No. (Each)	

i	6 Nos (Six numbers)	75mm dia PVC Door Elbow			1 No. (Each)	
66		Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc.,				
a	200 RM (Two hundred running meter)	110mm dia PVC pipe			1 RM (One running metre)	
67	20 Nos (Twenty numbers)	Construction of Inspection chamber in Brick work using 8 3/4" x 4 1/4" x 2 3/4" size Chamber bricks with a clear size of 0.60 x 0.60 x 0.90m to a thickness of 0.23m in cm 1:5 over the CC 1:5:10 using 40mm kg HBSJ walls to a thickness of 0.23m and 1.12mx1.12m size and sand filling to a size of 1.12mx1.12m to a depth of 0.12m with necessary earthwork excavation of size 1.12mx1.12mx1.20m(Depth) including plastering the wall to a height of 0.78m inside the chamber and 0.55m on outer wall and top surface of the chamber and forming channel in the bottom of chamber and forming channel in the bottom of chamber and forming in CC 1:3:6 using brick jelly of 20mm size also including necessary RCC cover slab with necessary steel Reinforcement etc.,complete.			1 No. (Each)	



68	10 Nos (Ten numbers)	Supplying and fixing in position of Cast Iron Man Hole Cover with CI frames of size 600 x 600mm (Heavy Duty) of best approved quality and as per indian standard specification make etc.,complete complying with standard specification and as directed by the departmental officers. (The make quality and colour of paint should be got approved by the departmental officer before use on work).			1 No. (Each)	
69	38 Nos (Thirty eight numbers)	Supplying and fixing Carbon-di-Oxide Gas type 2Kg capacity Fire Extinguisher as per New IS15683, complete with control valve, discharge hose with horn, wall mounting bracket, safety clip etc., including conveyance, all incidental charges dry chemical powder .Fire extinguisher ISI.Specification with required G.I Clamp 2Nos and T.W Plugs, screws and nails etc., complete. The rate is inclusive of cost of materials drilling, fixing, redoing the disturbed portion complete			1 No. (Each)	
70	162 M <sup>2</sup> (One hundred and sixty two square metres)	Providing wall panelling using NUWOOD SHEET 12mm thickness with teak wood reeper of size 2"x1" placed at intervals of 60 cm c/c vertically and horizintally and providing of 21/2 x16G MS flat for clamps powder coats alum 'T','U',and 'L' Beading 11/2" thick PVC Beading including Labour charges for Fixing the furniture fittings and the shutter fixed to the frame in position and inlcuding paintings etc., complete complying as directed by the departmental officers as per standard specifications.			1 M <sup>2</sup> (One square metre)	

71	1 No (One number)	<p>Supplying and erecting in position of 1000 litre capacity Industrial Model Reverse Osmosis Water-cum-Purifier to deliver Potable Water with World Health Organisation (WHO) Standards with following accessories.</p> <p>(a) MS Skid - 1 No.</p> <p>(b) Media 11054 No. Vessel with 20 nb Multiport Valve (with Media Pubble and Fine Sand and Activated Carbon Filling) set</p> <p>(c) Feed Pump 0.50 HP – 1 No.</p> <p>(d) Vertical Pump 2-9, 2.00 HP / Single Phase – 1 No.</p> <p>(e) Membrane 40 x 40 filmtech (or) equilaents / Osmonic (USA) - 1 No. and Membrane Pressure Vessel 40 x 40 -1 No. &amp; Pressure Gauge - 2 Nos.</p> <p>(f) Flow Meter - 1 No. 20" Filter with Housing - 1 No. Low Pressure Switch - 1 No., Level Switch - 1 No. &amp; Necessary CPVC Pipes and Fittings.</p> <p>The system shall be provide with Two Panel Control System with necessary Stainless Valves and Fittings and Float Control etc. The rate should be inclusive of all civil works, wherever necessary to install the System in position and intact</p>			1 No. (Each)	
72	25 M <sup>2</sup> (Twenty five square metres)	Supplying and Fixing in position of alumimum Sheet for covering the Expansion Joint including the cost and conveyance of all materials and fixing etc., Complete as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	

73	30 M <sup>2</sup> (Thirty square metres)	Providing Red Carpet (Cair mat) in Stair case step portion including cost of material, conveyance and fixing charges etc., complete as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	
74	45 Nos (Forty five numbers)	Supply of sitting bench made up of chisel dressed Granite slab and legs with following specifications. The sitting bench bottom slab is of size 6'x15"x2 1/2", Back rest slab - 2Nos of size 6'x6"x2 1/2". The height of bottom slab shall be 18" and the legs - 2Nos of thickness 4", Height of 38". The rate is inclusive of cost of Granite slab, labour for dressing, Bell mouting the corners of bottom slab, Top of legs, incidental charges, conveyance to site and fixing in position etc., complete but excluding GST charges as directed by the departmental officers.			1 No. (Each)	
75	260 RM (Two hundred and sixty running meter)	Supplying and fixing in position 'B' Class GI pipes of size 50mm for holding the chain link fencing including dismantling the masonry etc. including one coat of red oxide primer.			1 RM (One running metre)	
76	220 M <sup>2</sup> (Two hundred and twenty square metres)	Supplying and fixing chain link fencing of 5cm x 5cm x 10 gauge, tied firmly with support pillars using G.I.wire etc., complete complying with standard specifications.			1 M <sup>2</sup> (One square metre)	
				<b>TOTAL</b>		
				<b>GST</b>		
				<b>GRAND TOTAL</b>		
		<b>76 Items (Seventy six items only)</b>				