

Schedule - A						
NAME OF WORK :		Special maintenance and repair for various buildings in Government College of Education, Pudukottai.				
EMD: Rs. 1,05,500/-				Date: 05.04.2022		
Sl. No	Qty	Description of Work	TN BP NO.& NBC	Rate in Words	Unit	Amount
		<b>CIVIL WORK</b>				
1	708 M <sup>3</sup> (Seven hundred and eight cubic metres)	Dismantling clearing away and carefully stacking materials useful for reuse for any thickness of One course of Pressed tiles and stacking carefully away from the site for reuse etc., complete complying with standard specification and as directed by the Departmental officers.			1 M <sup>3</sup> (One cubic metre)	
2	40 M <sup>3</sup> (Forty cubic metres)	Dismantling clearing away and carefully stacking materials useful for reuse for any thickness of flooring the surface etc., complete complying with standard specification and as directed by the Departmental officers.			1 M <sup>3</sup> (One cubic metre)	
3	10 M <sup>3</sup> (Ten cubic metres)	Dismantling clearing away and carefully stacking materials useful for reuse for any thickness of Reinforced cement concrete etc., complete complying with standard specification and as directed by the Departmental officers.			1 M <sup>3</sup> (One cubic metre)	

4	126 M <sup>3</sup> ( One hundred and twenty six cubic metres)	Supply and fixing of weld mesh of size 50x50mm with 10gauge rods over picked surface including cost and conveyance of weld mesh and 6mm round spikes and including labour charges for cuttings straightening, and fixing of dowels of 50cm intervals and applying two coats of bonding Epoxy resin over the concrete surface old to new and new to new concrete surface old RCC portion including cost epoxy resin cleaning and removal of the chemical matters that is called <b>Gunaiting work</b>			1 M <sup>3</sup> (One cubic metre)	
5	292 M <sup>3</sup> ( Two hundred and ninety two cubic metres)	Earthwork excavation for narrow foundation in all soils and sub soils to full depth as may be directed except in hard rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary refilling the foundation with excavated earth other than sandy soil in the layers of not more than 15cm thick layers well rammed and deposing the surplus earth within compound in places shown by the departmental officers with an initial lead 10 metre and initial lift of 2 metre and clearing and leveling the site etc., complete complying with standard specification and as directed by the departmental officers.			1 M <sup>3</sup> (One cubic metre)	
6	23 M <sup>3</sup> ( Twenty three cubic metres)	<b>Earthwork Open excavation</b> in all soils and sub soils to full depth as may be directed except in hard rock requiring blasting inclusive of shoring shuttering, baling out water wherever necessary refilling the foundation with excavated earth other than sandy soil in layers of not more than 15 cm thick layers well rammed and depositing the surplus earth within compound in places shown by the departmental officers with an initial lead of 10 metre and initial lift of 2 metre and clearing and leveling the site etc., complete complying with standard specification and as directed by the departmental officers.			1 M <sup>3</sup> (One cubic metre)	

7	586 M <sup>3</sup> (Five hundred and eighty six cubic metres)	Supplying and filling conveyed gravel other than sand with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification			1 M <sup>3</sup> (One cubic metre)	
8	108.68 M <sup>3</sup> ( One hundred and eight point six eight cubic metres)	Cement Concrete 1:5:10 (One Cement, Five M Sand and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for flooring including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification			1 M <sup>3</sup> (One cubic metre)	
9		Brick work in cement mortar 1:5 (one cement and five M sand) using <b>country bricks of size 8 3/4 " x 4 1/4 x 2 3/4 "</b> including curing etc., complete complying with standard specification and as directed by the department officers. (Masonry projections wherever necessary for obtaining required elevation shall be done without extra cost).				
a	157 M <sup>3</sup> (One hundred and fifty seven cubic metres)	For Foundation and Basement			1 M <sup>3</sup> (One cubic metre)	

10		Brick work in cement mortar 1:6 (one cement and Six M sand) using <b>country bricks of size 8 3/4 " x 4 1/4 x 2 3/4 "</b> including curing etc., complete complying with standard specification and as directed by the department officers. (Masonry projections wherever necessary for obtaining required elevation shall be done without extra cost).				
a	120 M <sup>3</sup> (One hundred and twenty cubic metres)	For Foundation and Basement			1 M <sup>3</sup> (One cubic metre)	
b	8 M <sup>3</sup> (Eight cubic metres)	For Superstructure in Ground Floor			1 M <sup>3</sup> (One cubic metre)	
11		Brick partition 10.80 cm Thick in cement mortar 1:3 (one cement and three M sand) using III class kiln burnt country bricks of size 83/4" 41/4" 21/4" and finishing neatly curing etc., complete complying with standard specifications and as directed by the departmental officers. (Masonry projections wherever necessary for obtaining required elevation shall be done without extra cost).				

a	88 M <sup>2</sup> (Eighty eight square metres)	For Ground floor			1 M <sup>2</sup> (One square metre)	
12	23 M <sup>2</sup> (Twenty three square metres)	Supplying and erecting steel Strutting including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)			1 M <sup>2</sup> (One square metre)	
13		Supplying and erecting, centering for sides and soffits including supports and strutting upto 3.29m height for plane surfaces as detailed below in all floors with all cross bracings using mild steel sheet of 90cm x 60cm BG 10 gauge stiffened and welded with M.S. angle of 25 x 25 x 3mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10 cm to 13 cm dia spaced at 75 cm centre to centre at suitable intervals etc. complete in all floors complying with standard specification. (The payment for centering shall be made only after the concrete is laid)				

a	742 M <sup>2</sup> (Seven hundred and forty two square metres)	For Plain surfaces such as RCC slab, Beam, Bed Block, waist slab, landing slab, lintel etc.,			1 M <sup>2</sup> (One square metre)	
b	326 M <sup>2</sup> (Three hundred and twenty six square metres)	For square or rectangular column, boxing, sunshade etc.,			1 M <sup>2</sup> (One square metre)	
14	373 M <sup>3</sup> ( Three hundred and seventy three cubic metres)	Providing <b>additional strutting</b> to centering of RCC slabs of plain surface for every additional 1.0 metre height or part thereof but not less than 30 cm, over the initial 3.00 metre height from floor level using casurina props of 10cm to 13cm dia including cross bracing etc., complete complying with standard specification and as directed by the department officers.			1 M <sup>3</sup> (One cubic metre)	

15		Providing and laying in position, Standardised <b>Concrete Mix M-20 Grade in accordance using with IS:456-2000, 20mm</b> and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 kg/m <sup>3</sup> and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m.) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor/ roof slabs wherever necessary without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS standards. (No separate payment will be made by the Department for the excess usage of materials).				
a	16 M <sup>3</sup> (Sixteen cubic metres)	For Foundation and Basement			1 M <sup>3</sup> (One cubic metre)	

b	104.50 M <sup>3</sup> ( One hundred and four point five zero cubic metres)	For Superstructure in Fiirst Floor			1 M <sup>3</sup> (One cubic metre)	
c	4 M <sup>3</sup> ( Four cubic metres)	For Superstructure in second Floor			1 M <sup>3</sup> (One cubic metre)	
16	187.02 qtl ( One hundred and eighty seven point zero two quintal)	Supplying, fabricating and placing in position Mild Steel / Ribbed Tor Steel grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)			1 qtl (One quintal)	
17		Plain Cement Concrete 1:2:4 (one cement, two M sand and four hard broken stone jelly) using 10 to 12.50mm jelly for wearing coat including laying, compacting, finishing and curing, etc., complete as per standard specificatins and as directed by the departmental officers.				

a	69 M <sup>3</sup> ( Sixty nine cubic metres)	For Foundation and Basement			1 M <sup>3</sup> (One cubic metre)	
b	58 M <sup>3</sup> ( Fifty eight cubic metres)	For Superstructure in Ground Floor			1 M <sup>3</sup> (One cubic metre)	
18	5 M <sup>3</sup> ( Five cubic metres)	<b>Cement Concrete 1:3:6</b> (One cement, three M sand and six aggregate) using 40mm gauge hard broken granite stone jelly for dummy columns,excluding cost of centering, shuttering, reinforcement grill fabrication charges but including consolidating as per standard specification, finishing, curing etc., complete complying with standard specification and as directed by the departmental officer.(Cement concrete 1:2:4 for slabs to be extended upto top of splashing with pressed tiles and future extension rods to be embedded in cement concrete 1:3:6 Dummy column should be atleast in 1m height)			1 M <sup>3</sup> (One cubic metre)	

19	1350 M <sup>3</sup> ( One thousand three hundred and fifty cubic metres)	Supplying and laying of 60 mm thick high strength type of <b>interlocking rubber moulded hydraulic pressed paver block</b> 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>3</sup> (One cubic metre)	
20	762 M <sup>2</sup> (Seven hundred and sixty two square metres)	Finishing the top roof with one course of solar reflecting ceramic tiles of size 305x305x7mm thick of approved quality set in cement mortar 1:3 (One cement and three M 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.			1 M <sup>2</sup> (One square metre)	
21	173 RM ( One hundred and seventy three running metre)	Supplying and fixing in position best approved of BIS quality 110 mm dia 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., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.			1 RM (One running metre)	

22	622 M <sup>2</sup> (Six hundred and twenty two square metres)	Paving the floor with New <b>vitrified tiles</b> (like Marbonite or equivalent) of approved quality and colour of size <b>600 x 600x 8 mm thickness</b> 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 0.30kg/m <sup>2</sup> including adding suitable colour pigments to suit the colour of tiles finishing perfectly and curing etc., including cost of tiles, all materials and incidental charges, transportation charges and labour charges for laying tiles etc., complete complying with standard specification and as directed by the Departmental officers. (The tiles should be got approved by the Departmental officers before use on works).			1 M <sup>2</sup> (One square metre)	
23	41 M <sup>2</sup> (Forty one square metres)	Paving the floor with pre-polished concrete anti-skid step tiles (Required shape and design) of 20mm thick of approved quality and colour laid in Cement Mortar 1:3 (One Cement and Three sand) 20mm thick and pointed with white cement mixed with colouring pigment at the rate of 0.40 Kg. / sq.m., curing, etc., complete complying with standard specification and as directed by the departmental officers. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)			1 M <sup>2</sup> (One square metre)	

24	17 M <sup>2</sup> (Seventeen square metres)	Providing and fixing Stainless Steel hand rail made out of SS 304 grade 50.80 mm dia stainless steel tube of 1.60 mm thick at required locations to a height of 1000 mm from finished floor level welded to 38.30 mm dia stainless steel tube post of 1.60 mm thick as vertical at 1.00 m center to center with 3 nos of 25.40 mm dia horizontal stainless steel tubes of 160mm thick in between as per the details shown in the drawing and as directed. The rate shall include for grouting with concrete into necessary supporting arrangements of handrail verticals and in floor, welding the base cup of the post into slab reinforcement polishing, buffing and protecting the hand rail surface etc., complete complying with standard specification and as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	
25	9 M <sup>2</sup> (Nine square metres)	Solid PVC door shutters using 19 gauge 19mm MS square tubes for styles and outer frames 15mm M"S square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mmx30mm. The over all size of top rail, lock rail and bottom rail shall be 75mmx30mm. The over all size of frames shall be 50mmx45mm with suitable rebate for housing the shutter with frame.			1 M <sup>2</sup> (One square metre)	

26	27 M <sup>2</sup> (Twenty seven square metres)	Supplying ,fabricating and fixing in position of steel frame without bottom frame, of size 100X60mm rectangular section with necessary rebate 30mmX15mm, to host the shutter,using 1.25mm thick (18 guage) CRCA cold rolled frame steel plate confirming to ISI specified ensured of right butt joint riveted hold assembly with nylon insert,not be welded with special purpose hard ware.Proclaimed including phopating as per ISI with rust preventive primer ready to assemble condition for easy installation at site including dismantling,making necessary chipping and holes in RCC columns, walls with power drills to the extent required ,including providing concrete 1:2:4 inside the box curing etc complete.The cost includes the cost of hold fast ,plastic bush, insert receiver,rubber bottom,shock absorber etc complete as directed by the departmental officers in all floors			1 M <sup>2</sup> (One square metre)	
27	12 M <sup>2</sup> (Twelve square metres)	Supplying and fixing in position of <b>35mm thick Solid core</b> of block board type <b>flush door shutter</b> with commercial veneering on both sides hot pressed bonded with liquid phenol formaldehyde resin with external lipping by teakwood with ISI mark shutter. The door is provided with a aluminium handles aldrops, two tower bolts, a door stopper and wind appliance etc., The furniture fittings are fixed at appropriate places as directed by the departmental officers. (Double leaves)			1 M <sup>2</sup> (One square metre)	

28	32 M <sup>2</sup> (Thirty two square metres)	Manufacturing, Supplying and Fixing in position of M.S steel window ( Three leaves ) 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)	
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29	2.10 M <sup>2</sup> (Two point one zero square metres)	Supply and Fixing of M.S. steel doors with double Leaves following specification. MS angles of size 40x40x 6mm at 3.5 kg/m used for the outer frame and MS angles of size 35x35x5mm at 2.60 kg/m for the shutter frames. Stiffners with 32x6mm at 1.50 Kg/m. MS flat is provided as the lock rail of the door and welded infact of both ends to the shutter frame, 18 gauge CR sheets of best quality is laid as panel in the shutter frames. 18x5mm at 0.70 kg/m MS flat is welded over the 32x6mm at 1.50 Kg / RM and MS flat on the rear side of the door sandwitching the CR sheet for rigidity with locking rail and bottom tie arrangements. Additional stiffners with 18x5 mm at 0.7 kg/m MS flats are provided horizontally diagonally on the rear side of the shutter. 2Nos of hinges in case of single leaf and 4Nos of hinges in case double leaf shutter is provided 6 Nos of hold fasts 200 length 40x40x6mm M.S. angle spliced at the ends are welded to the outer frame of the door. Tower bolt 2 Nos. one at top and the other at bottom are provided. One aldrop is provided incase of double leaves door at lock rail section in the door. For single leaf doors, one more aldrop is provided in the inner side at the lock rail section of the door. One rotating locking arrangements at the inner side of the door and additional provision for locking arrangements for lock is provided with 32x6mm MS flat on the rear side of the door at an appropriate place incase of a double leaves door MS flat 32x6mm at 1.50 kg/m is provided on the edge of one shutter to conceal the gap between the shutters. A tie bar is provided at the bottom of the outer frame to prevent twisting of frame during transportation of fixing. All members are given a shop coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials labour charges transportation taxes and all other incidental charges etc., complete.			1 M <sup>2</sup> (One square metre)	
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30	31 M <sup>2</sup> (Thirty one square metres)	Supplying , fabricating and fixing in position Aluminium Anodised natural colour mat finish Two track sliding window in all floors with Aluminium sections of outer Frame bottom 62x37mmx1.50mm at 1.218 kg/m,the Side & Top 62x31.50x1.50mm at 0.778 kg/m,Shutter Top 40x18x1.5 at 0.38 kg/m,Bottom 40x18x1.5 at 0.38kg/m, Side Vertical 40x18x1.50mm at 0.493 kg/m, Vertical locking section 40x29x1.5mm at 0.632 kg/m, 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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31	46 M <sup>2</sup> (Forty six square metres)	Supplying, fabricating and fixing in position <b>Aluminium Anodised natural colour mat finish Three track sliding window in all floors with Aluminium</b> 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)	
32	2803 Kg (Two thousand eight hundred and three kilogram)	Supplying and fixing of M.S.grill of approved design for grill gate, grill work to doors and windows openings ramp etc., using necessary mild steel flats for inner and outer members which should be fixed on edges including priming coat of best approved quality red oxide primer etc., complete complying with standard specification.			1 kg (one kilogram)	

33	688 M <sup>2</sup> (Six hundred and eighty eight square metres)	Painting old wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all floors including the cost of primer etc., complete complying with standard specification.			1 M <sup>2</sup> (One square metre)	
34	29 M <sup>2</sup> (Twenty nine 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)	
35	189 M <sup>2</sup> (One hundred and eighty nine square metres)	Painting Old iron works such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats 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 etc., complete complying with standard specification.			1 M <sup>2</sup> (One square metre)	

36	221 M <sup>2</sup> (Two hundred and twenty one square metres)	Painting new iron works such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats 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 etc., complete complying with standard specification.			1 M <sup>2</sup> (One square metre)	
37	5 Nos (Five numbers)	Supplying and fixing in position Indian Water Closet (Oriya type) of size 580 x 440mm colour glazed earthen ware of approved quality and brand with "P" or "S" trap conforming to BIS with sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 (One lime, Two sand and Five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to PVC pipes (including the cost of 110mm dia PVC pipe for a length of 600mm) by dismantling brick masonry wall / reinforced cement concrete roof / floor slab and making good the dismantled portion to the original condition with leakages etc., complete complying with standard specifications and as directed by the departmental officers. (The water closet should be got approved by the Executive Engineer before use on works).			1 No. (Each)	
38	1468 M <sup>2</sup> (One thousand four hundred and sixty eight square metres)	Plastering with Cement Mortar 1:5 (One cement and Five P sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.			1 M <sup>2</sup> (One square metre)	

39	1065 M <sup>2</sup> (One thousand and sixty five square metres)	Special ceiling plastering and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, 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, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers			1 M <sup>2</sup> (One square metre)	
40	494 M <sup>2</sup> (Four hundred and ninety four square metres)	White washing two coats to walls and ceiling in all floors with best shell lime including cost of lime, fevicol and sodium chloride and other materials like brushes scaffolding charges etc. including preparing the surface, neat finishing etc., complete complying with standard specification.			1 M <sup>2</sup> (One square metre)	
41	975 M <sup>2</sup> (Nine hundred and seventy five square metres)	Painting the walls two 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. (New surface)			1 M <sup>2</sup> (One square metre)	
42	3862 M <sup>2</sup> (Three thousand eight hundred and sixty two square metres)	Painting the walls two 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. (Old surface)			1 M <sup>2</sup> (One square metre)	

43	1023 M <sup>2</sup> (One thousand and twenty three square metres)	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification. <b>(New Surface)</b>			1 M <sup>2</sup> (One square metre)	
44	8285 M <sup>2</sup> (Eight thousand two hundred and eight five square metres)	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification <b>(Old Surface)</b>			1 M <sup>2</sup> (One square metre)	
45	2 Nos (Two numbers)	Supply and fixing of <b>carbon-di-oxide gas</b> type 2 kg. capacity Fire extinguisher as per new IS:15683, complete with control valve, discharge hose with horn, wall mounting bracket, safety clip etc. including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary etc. complete as per standard specification and as directed by the Departmental Officers. Make: Excellent/Safety First/equivalent.			1 No. (Each)	

46	8 Nos (Eight numbers)	Supply and fixing of stored pressure <b>ABC</b> (Mono Ammonium Phosphate) powder type fire extinguisher of 6 kg capacity as per IS:15683 with pressure gauge, discharge hose & control nozzle, wall mounting bracket, safety clip etc. including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary etc. complete as per standard specification and as directed by the Departmental Officers. Make: Excellent/Safety First/equivalent.			1 No. (Each)	
47	1 No (One number)	Sintex PWTS (Bio septic tank) etc. complete as per standard specification and as directed by the Departmental Officers. Make: Excellent/Safety First/equivalent.			1 No. (Each)	
48	209 RM (Two hundred and nine running metre)	Supplying and fixing of bare <b>Galvalume sheet (aluminium zinc alloy coated sheet) with yield strength 550Mpa and 0.47mm thickness</b> including all fittings as directed by the departmental officers. The rate is including cost of materials, labour charges for fixing conveyance, loading and unloading and all taxes etc., complete complying with standard specification. (The Bare Galvalume sheet could be got approved by the Executive Engineer before use on work)			1 RM (One running metre)	

49	2413 RM (Two thousand four hundred and thirteen running metre)	Flex coating over Terrace floor with poly carbonate chemical in respect as per ratio in standard specification, etc, complete complying with standard specification and as directed by the departmental officers.			1 RM (One running metre)	
50	16 M <sup>2</sup> (Sixteen 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, Interloacking 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, masonary 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)	

51		Supplying, laying and joining the following size of UPVC pipes of approved quality and best verity conforming to ISS with ISI mark of the following size specification Below Ground Level laid properly to alignment including fixing the required UPVC specials but excluding the cost of such specials cutting and threading the UPVC pipes . The pipes are to be painted with one coat of Tar over Gunney tape wound over the pipe etc., complete complying with standard specification and as directed by the departmental officers.				
a	279 RM ( Two hundred and seventy nine running metre)	50mm dia UPVC pipe			1 RM (One running metre)	
b	233 RM ( two hundred and thirty three running metre)	40mm dia UPVC pipe			1 RM (One running metre)	

52		Supplying, laying and joining UPVC pipes of approved quality and best variety conforming to ISS with ISI mark, of the the following size <b>above Ground level</b> up to 4 M hight laid properly to alignment including cutting, threading and fixing the required PVC specials but excluding the cost of such specials and fixing to the wall with necessary TW plugs, 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, concrete and plastering wherever necessary with necessary scaffolding charges etc., complete. Above ground level.				
a	65 RM ( Sixty five running metre)	50mm dia UPVC pipe			1 RM (One running metre)	
b	18 RM ( Eighteen running metre)	40mm dia UPVC pipe			1 RM (One running metre)	

c	59 RM ( Fifty nine running metre)	32mm dia UPVC pipe			1 RM (One running metre)	
53		Supplying and fixing in position first quality and approved variety of Gun metal Gate Valve / Wheel Valve with BIS make of the following dia including cost of shellac, thread balls, etc., complete complying with standard specifications (for both internal and external water supply arrangements). The valves to be used on work shall be got approved by the Executive Engineer before use on work.				
a	8 Nos (Eight numbers)	50mm dia Gun Metal Gate Valve			1 No. (Each)	
b	2 Nos (Two numbers)	40mm dia Gun Metal wheel Valve			1 No. (Each)	

c	10 Nos (Ten numbers)	32mm dia Gun Metal wheel Valve			1 No. (Each)	
54	96 Nos (Ninety six numbers)	Supplying and fixing in position 15mm dia brass CP screw down tap / Pillar tap (heavy duty) of approved make conforming to BIS specifications and quality including cost of shellac, thread, etc., complete complying with standard specification and including cutting and threading wherever necessary.			1 No. (Each)	
55	8 Nos (Eight numbers)	Supplying and filling of 10-12mm ISS metal in dispersion trench around the stoneware pipe or in the leach pit or soak pit to the required thickness as directed by the departmental officers etc. complete. (The rate including cost of metal filling etc., complete complying with standard specification.			1 No. (Each)	

56		Supplying and fixing in position best quality 110 mm dia PVC soil / waste pipes of various dia having 6 kg / sq.cm. pressure BIS mark and providing leak proof joints using PVC adhesives including fixing to the wall with special PVC / MS clamp, teak wood plugs, brass screws, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications. (The PVC pipes should be got approved by the Executive Engineer before use on works). The rate for earth work excavation will be measured and paid separately in the cases where the pipe lines are proposed to laid <b>below ground level</b>				
a	8 RM ( Eight running metre)	110mm dia			1 RM (One running metre)	
b	40 RM ( Forty running metre)	160mm dia			1 RM (One running metre)	

57	3 Nos (Three numbers)	Construction of Manhole chamber of size 600x600mm with the following description. The earth work excavation to a size of 1.20 x 1.20 x 1.05m, sand filling for 10cm thick, cement concrete 1:5:10 for 15cm thick using 40mm gauge HBGS jelly, walls in brick work in cement mortar 1:3 (One cement three M sand) using country bricks of size 8.75"x4.25"x2.25" plastering with cement mortar 1:3 (One cement three sand) 12mm thick and the bottom is finished with cement concrete 1:3:6 (One cement three sand and six aggregate) using 20mm brick jelly etc., complete complying with standard specification and as directed by the departmental officers.			1 No. (Each)	
58	12000 lit (Twelve thousand litre)	Supplying and Fixing of <b>PVC ready made 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 lit (One litre)	
59	1.50 RM ( One point five zero running metre)	Providing expansion joint of 20mm width in between <b>RCC twin columns</b> from top of pedestal to full height including filling the inner space with suitable non - absorbent, flexible and well compressible filler materials of approved quality and brand; finishing the sides of RCC columns with polysulphide sealants for a depth of 7.5mm on either side covering the inner space filled with filler materials as above etc.,			1 RM (One running metre)	

60	128 RM ( One hundred and twenty eight running metre)	Providing Y angle above protective wall with angle of size 50x50x5mm with holding barbed wire at required interval etc., complete complying with standard specification and as directed by the departmental officers.			1 RM (One running metre)	
61	549 RM ( Five hundred and forty nine running metre)	Supplying and Fixing in position of <b>barbed wire fencing</b> using 10 gauge 2 ply 4 pronged barbed wire etc., complete complying with standard specification and as directed by the departmental officers.			1 RM (One running metre)	
62	172 M <sup>3</sup> (One hundred and seventy two cubic metres)	Supplying, fabricating, erecting and fixing <b>Gyp Board false ceiling</b> upto a ceiling height of 4.50m from floor level with plain gyp boards of 10mm thick and GI metal channel of size 45 X 15 X 0.9mm forming a grid of 120 X 60cm and anchored to the celing with dash fasteners of 12.50mm dia, 40mm long 6mm dia bolt and nut to the hanger of 25x25x5mm of required length. The other end of the angle fixed with bolt and nut to GI channel. The GI frame work will be covered with 10mm thick gyp board of approved quality confirming to IS 2095.			1 M <sup>3</sup> (One cubic metre)	

63	18.50 M <sup>2</sup> (Eighteen point five zero square metres)	Supplying and installation of <b>Ceramic Steel chalk writing board</b> 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. (Science block , Periyar University)			1 M <sup>2</sup> (One square metre)	
				TOTAL		
				GST 12 %		
				GRAND TOTAL		
	63 Items ( Sixty three items only)					