

NAME OF WORK:- Special maintenance and repairs works for Geography Block, Research Lab, Virtual Block, Computer Science Block, Commerce Block, toilet and other works in Bharathi women's College, Chennai 108 (Single Cover)

SCHEDULE A

EMD: Rs. 162500/-						Date:19.04.2022	
Sl. No	Qty	Description of Work	TN BP NO.	NBC NO.	Rate in figure and Words	Unit	Amount
1	1180 M ² (One thousand one hundred and eighty square metres)	Dismantling , clearing away and carefully stacking materials useful for re-use for any thickness of weathering course and pressed tiles etc complete complying with standard specification				1 M ² (One square metre)	
2	295 M ³ (Two hundred and ninety five cubic metres)	Dismantling , clearing away and carefully stacking materials useful for re-use for Doors and windows etc complete complying with standard specification				1 M ³ (One cubic metre)	
3	16 M ³ (Sixteen cubic metres)	Dismantling , clearing away and carefully stacking materials useful for re-use for Brick / Stone masonry in cement mortar etc complete complying with standard specification				1 M ³ (One cubic metre)	

4	2740 M ² (Two thousand seven hundred and forty square metres)	Dismantling , clearing away and carefully stacking materials useful for re-use for the damaged floor finish and dadoing the walls with ceramic tiles in cement mortar etc complete complying with standard specification				1 M ² (One square metre)	
5	235 M ³ (Two hundred and thirty five cubic metres)	Earthwork excavation for foundation (for narrow excavation) 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 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.	23 & 24	V, VI (S2)		1 M ³ (One cubic metre)	
6		Providing two legged scaffolding using 15cm dia blue gum post or casurina poles or best quality bamboo post of 4m over all length (3m height +0.50m into the ground + 0.50m projection) the distance between two rows being 1.25m and the spacing of post being 2m in the both the rows with two horizontal post with 0.50m over lap on either side and braces at 2m c/c including longitudinal and tranverse middle braces to step and providing a platform with country wood planks of 40mm thick and 1m width etc. in a complete form using coire and nails 1 RM etc; comp-lete complying with standard specification and as directed by the departmental officers.					
a	30 RM (Thirty running metre)	Rate for an initial height of 3 m and length of 1m				1 Rm (One running metre)	

b	90 RM (Ninety running metre)	For every additional height of 2.5 M Height taking into consideration - 6 RM				1 Rm (One running metre)	
7	140 M ³ (One hundred and forty cubic metres)	Supplying and filling the foundation and basement with filling Gravel in layers of not more than 15cm thick well rammed, watered and consolidated as directed by the Departmental Officers complete complying with standard specification.				1 M ³ (One cubic metre)	
8	28 M ³ (Twenty eight cubic metres)	Supplying and Filling in foundation and basement with M sand 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.	24 & 25	V, VI (S2)		1 M ³ (One cubic metre)	
9	25 M ³ (Twenty five cubic metres)	Cement concrete 1:5:10 (one cement, five M sand and ten aggregate) using 40mm gauge hard broken blue granite stone jelly for foundation and including dewatering if found necessary and laid in layers of not more than 15cm thick and compacted etc., complete complying with standard specification and as directed by the departmental officers.	23 & 28	VI (8.2) 8.3 VI (S5A) 4.2.1. 3		1 M ³ (One cubic metre)	

10	140 M ² (One hundred and forty square metres)	Supplying and erecting steel centering 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)	30(S) 86 86 A V, VI (S3) VII	VII		1 M ² (One square metre)	
11		Supplying and erecting steel centering including necessary supports for plain surfaces, for all RCC works including strutting upto 3.29m in all floors using mild steel shutters of size 90cmx60cm of BG 10 stiffened with mild steel angles of size 25mmx 25mmx3mm laid over silver oak (Country wood) Joists of size 10cmx6.5cm spaced at about 90cm c/c and supported by casurina props of 10cm to 13cm dia. (spaced at 75cm c/c) etc., complete complying with standard specification and as directed by the departmental officers. (The centering will be removed after specified period of concrete without damaging the concrete)	30(S) 86 86 A V, VI (S3) VII	VII			
a	990 M ² (Nine hundred and ninety square metres)	For plain surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.				1 M ² (One square metre)	
b	530 M ² (Five hundred and thirty square metres)	For plain surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.				1 M ² (One square metre)	

12		Providing and laying in position, Standardised Concrete Mix M-30 Grade in accordance with IS 456-2000 using 20mm and down graded Hard broken Granite stone jelly for all RCC items of works with minimum cement content of 400 Kg/m ³ and maximum water cement ratio of 0.45, 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 (5.0 cu.m) 7730 Kg. of 20mm machine crushed stone jelly and with about (3.30 cu.m) 5156 Kg. of 10-12mm machine crushed stone jelly with about (4.79 cu. m) 7670 Kg. of M 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 RCC floor/roof slab where ever necessary without claiming extra, etc., complete complying with standard specifications 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)	28	VI.8.2 .8.3. VI (S5A) 4.2.1. 3			
a	42 M ³ (Forty two cubic metres)	For foundation and basement				1 M ³ (One cubic metre)	
b	47 M ³ (Forty seven cubic metres)	For superstructure in ground floor				1 M ³ (One cubic metre)	

c	49 M ³ (Forty Nine cubic metres)	For super structure in First Floor				1 M ³ (One cubic metre)	
d	52 M ³ (Fifty two cubic metres)	For super structure in Second Floor				1 M ³ (One cubic metre)	
13	230 Qtl (Two hundred and thirty quintals)	Supplying, fabricating and placing in position of steel reinforcement using MS (or) RTS rods for all RCC item of works including cost of steel and binding wire in all floors etc., complete complying with standard specification and as directed and as per design given by the departmental officers.	97	VI (8.6) VII.3		1 Qtl (One quintal)	
14		Brick work in cement mortar 1:5 (one cement and five m sand) using Ground Moulded second class chamber burnt bricks of size 9"x4 3/8 x2 3/4" 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).	31C	V, VI S(5) VII			

a	48 M ³ (Forty eight cubic metres)	For Foundation and basement				1 M ³ (One cubic metre)	
b	48 M ³ (Forty eight cubic metres)	For Superstructure in ground Floor				1 M ³ (One cubic metre)	
c	48 M ³ (Forty eight cubic metres)	For super structure in First Floor				1 M ³ (One cubic metre)	
d	54.50 M ³ (Fifty four point five zero cubic metres)	For super structure in Second Floor				1 M ³ (One cubic metre)	
15	1530 M ² (One thousand five hundred and thirty square metres)	Plastering with cement mortar 1:5 (one cement and five P- sand) 12mm thick in all floors using fine river sand including neat finishing, curing, etc., complete complying with standard specification and as directed by the department officers.	61	V (S4) (3)		1 M ² (One square metre)	

16		Brick partition walls of 11.50cm thickness using best quality II class Ground moulded chamber burnt bricks of size 9" x 4-3/8" x 2 3/4 " in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)					
a	51 M ² (Fifty one square metres)	For super structure in Ground Floor				1 M ² (One square metre)	
b	51 M ² (Fifty one square metres)	For super structure in First Floor				1 M ² (One square metre)	
c	51 M ² (Fifty one square metres)	For super structure in Second Floor				1 M ² (One square metre)	

17	2620 M ² (Two thousand six hundred and twenty square metres)	Paving the flooring with Double Charged Vitrified tiles of approved quality and colour size 600 x 600 x 8 mm for flooring in all floors over a base layer of cement mortar 1:3 (one cement and three M-Sand), 20mm thick and pointing with white cement using 0.30 kg/m ² of white cement 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 etc., complete complying with standard specification and as directed by departmental officers. (The tiles should be got approved by the Executive Engineer before use on works)				1 M ² (One square metre)	
18	139 M ³ (One hundred and thirty nine cubic metres)	Weathering course using best quality of broken brick jelly of 20mm gauge in pure slacked lime (no sand to be added) the proportion of brick jelly to lime being 32:12.5 Cft. by volume and laid over the RCC roof slab in a single layer and consolidated to the required design and finished thickness and slope by beating the concrete with wooden beater of approved pattern and keeping the surface constantly wet by sprinkling lime jaggery water etc., complete complying with standard specification and as directed by the departmental officers.	44			1 M ³ (One cubic metre)	
19	1370 M ² (One thousand three hundred and seventy square metres)	Finishing the top of roof with one course of Machine pressed tiles of size 23x23x2cm 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) 2% by weight 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.				1 M ² (One square metre)	

20	660 M ² (Six hundred and sixty square metres)	Paving the floor with design colour ceramic tiles of approved quality and colour of size 305 x 305 x 6mm in all floors over a base layer of cement mortar 1:3 (one cement and three M sand) 20mm thick using M. sand and pointing with white cement using 0.30kg/m ² 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 quality of tiles should be got approved by the departmental officers before use on works).	39F			1 M ² (One square metre)	
21	1040M ² (One thousand forty square metres)	Dadoing the walls with colour designed glazed tiles of size 300mmx 200mmx 6mm of approved quality in all floors set in cement mortar 1:2 mix (one cement & two M sand) 10mm thick and pointing with white cement using 0.4 kg/m ² including adding suitable colour pigments to suit the colour of tiles including finishing the joints neatly and curing etc., complete complying with standard specifications. (The quality of tiles should be got approved by departmental officers before use on the work).	Spl			1 M ² (One square metre)	
22	1555 M ² (One thousand five hundred and fifty five square metres)	Special ceiling plastering 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.	56 & 57	V (S4) 3		1 M ² (One square metre)	

23	122 M ² (One hundred and twenty two square metres)	Plastering with Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick used including finishing, curing, etc., complete in all floors complying with standard specification and as directed by the departmental officers.	61	V (S4) (3)		1 M ² (One square metre)	
24		Supplying and fixing in position of Powder coated aluminium sliding window with ventilator of any colour with fixed glazing at top of window for a height 0.30m. The window should be made with the following specifications. The bottom track should be made of WS 1690 series section of size 123.00x41.00x1.80mm. 1.731Kg/m. The top and side track should be made of WS 1689 section of size 123.00x41.00x1.60mm 1.50Kg/m. The window shutter top and bottom frame should be made of WS 1686 section of size 60.00x29.00x1.60mm 0.750Kg/m. The window shutter vertical frame should be made of WS 2155 section of size 50.00x29.00x1.60mm 0.723kg/m. The window shutter interlock should be made of WS 1694 section of size 50.00x29.00x1.60mm 0.874kg/m. The fixed glass outer section should be made of H section (4133) of size 41.00x40.00x2.50mm 0.638kg/m. The window shutters and the top fixed portion should be provided with 4mm thick pin headed glass panels. The glass panel in top fixed portion should be fixed using single glazing clip 4135 of size 25.00x24.00x1.20mm 0.166kg/m. Necessary rubber beading should be provided around the glass panels. The aluminium sections are to be in accordance with IS 1886/1961. Necessary locking arrangements and handles should be provided as per the direction of the departmental officers. The rate includes the cost of transportation and fixing in position with necessary power drill to the extent required and made good to the original condition etc., complete complying with standard specifications. All materials should be got approved from the Executive Engineer before fixing in position.					

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Contractor

Chief Engineer

a	262 M ² (Two hundred and sixty two square metres)	Three Track				1 M ² (One square metre)	
b	144 M ² (One hundred and forty four square metres)	Two Track				1 M ² (One square metre)	
25	12 M ² (Twelve square metres)	Supplying and fixing in position of aluminium anodised colour matt finish louvered ventilator. The out frame will be 62x38x2mm @ 1.174kg/m and the louver with moving arrangement will be made with aluminium channel of size 60x30x4mm @ 1.27 kg/m with necessary glass panes for louvers 4mm thick and aluminium clips, including all materials, labour and power consumption charges required for fabrication if necessary chipping, dismantling, making holes in RCC columns beams or masonry wherever necessary with power drill to be extent required and make good to the original conditions after fixing etc. complete. The aluminium surface is to be anodised 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 section. (All materials should be got approved by the Executive Engineer before fixing in position as directed)				1 M ² (One square metre)	

26	42 M ² (Forty two square metres)	Supplying and fixing in position of Aluminium anodised colour matt finish openable cupboard 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 ² (One square metre)	
27	396 M ³ (Three hundred and ninety six cubic metres)	Easing the existing hanging doors and windows including renewing from its position and refixing the same after attending the petty repair works including labour charges for preparing and fixing the necessary furniture fittings including cost of of such furniture fittings and glass panes wherever necessary if any and fixing it in position etc. complete complying with standard specifications and as directed by the departmental officers.				1 M ³ (One cubic metre)	
28	47 M ² (Forty seven square metres)	Providing and fixing of teak wood panelled door shutter with double leaves of fully panelled using teak wood style 0.075 x 0.038 m 2 nos of top and bottom rail of size 0.075 x0.038 m ,lock rails of size 0.15x0.038m fixing teak wood planks for panelled portion of the shutter.The rate includes labour for wrought and put up for the shutter,cost of all materials such as Teak wood ornamental beeding, 3 nos of I O butt hinges 5",1 no of aldrop bolt 10",1 no of door stopper,1 no of door handle ornamental 150 mm long , 1 no of tower bolt 8"long,screws and nails , fevicol etc., and fixing the door shutter in position with necessary furniture fittings etc complete compaying with standard specifications and as directed by the departmental officers				1 M ² (One square metre)	

29	63 M ² (Sixty three square metres)	Supplying and fixing Medium density fibre board of exterior grade 35mm thick Single leaf door shutter conforming to I.S. 12406 / 1989 with external teak wood lipping of size 35x12mm on all edges with necessary adhesive and C.P. Screws, including fixing for aldrop, tower bolt,hinges and lock strike plates, putty, fevical ,painting the teak wood lipping etc., and including the cost of aluminium hinges 125x30mm size - 3Nos. aluminium aldrop of size - 250x16 mm - 1No. Aluminium tower bolt of size 250x12mm - 1No. tower bolt of size 200x12mm - 1No, D type aluminium handle of size 200mm-1No., aluminium door stopper with nylon bush - 1No. shall be provided. All aluminium furniture fittings are to be anodised with matt finish under electrically controlled condition in accordance with ISI specification 1868 / 1962 for anodic film thickness of not less than 15 microns. The rate is inclusive of cost of fevical fixing charges, transportation, loading, unloading all other incidental charges and handling charges etc., complete complying with standard specification.				1 M ² (One square metre)	
30	0.60 M ³ (Zero point six zero cubic metres)	Supplying and fixing country wood frames for doors, windows, ventilators and any other similar joinery works including cost of country wood scantling of required length and labour charges for wrought and put up in position and fixing the hold fast for doors, windows, ventilators etc., complete complying with standard specification and as directed by the departmental officers				1 M ³ (One cubic metre)	

31	107 M ² (One hundred and seven square metres)	Supplying and fixing 30mm thick solid core PVC door shutter with PVC frame of size 50x45mm with suitable rebate for housing the shutter consisting of frame made out of MS tubes 19 gauge thickness and size of 19x19mm for styles and 15x15mm for top and bottom rails, MS frame shall be covered with 5mm thick heat moulded PVC 'C' channel of size 30x50mm forming styles and 75x50mm for top rail, lock rail and bottom rail on either side and 10mm thick 20mm wide cross PVC sheet as gap insert for top rail, bottom rail, panelling of 5mm thick PVC sheet bearing on either side and join together other side etc. An additional 5mm thick PVC strip of 20mm width is to be stuck and the interior side of the 'C' channel using PVC sealant adhesive including cost of all furniture fittings, such as aluminium drop of size 250x16mm -1 No. aluminium tower bolt 250x12mm-1 No. aluminium D type handle 200mm etc. complete complying with standard specification and as directed by the departmental officers.				1 M ² (One square metre)	
32	11 M ² (Eleven square metre)	Supplying and Fixing RCC Jally of 50mm thick of approved design in RCC 1:2:4 (One part of cement, two part of sand and four part of aggregate) using 20mm HBG stone jelly and river sand excluding cost of reinforcement but including moulding charges curing, neat finishing etc., and labour charges for fixing the jally in position as directed by the departmental officer etc., complete.	30 & 62			1 M ² (One square metre)	

33	20 M ² (Twenty square metre)	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 ² (One square metre)	
34	260M ² (Two hundred and sixty square metre)	Painting the new iron work 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 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).	66A	V.VII. 3 & 15		1 M ² (One square metre)	
35	235M ² (Two hundred and thirty five square metre)	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 one coat of red oxide priming coat in all floors including cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				1 M ² (One square metre)	

36	13000 kg (Thirteen thousand kilogram)	Supplying and fixing MS grills to doors, windows and ventilators etc. using necessary MS flats (or) square rods for inner members and outer members which should be fixed to window frames as directed and design given by the departmental officers inclusive of cost of providing one coat of best quality red oxide primer etc., complete complying with standard specification and as directed by the departmental officers .	Spl			1 kg (One kilogram)	
37	15400 M ² (Fifteen thousand four hundred square metre)	Painting two coats of newly plastered wall surface with ready mixed Interior 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.				1 M ² (One square metre)	
38	9030 M ² (Nine thousand thirty square metre)	Painting two coats of newly plastered wall surface with ready mixed Exterior 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.				1 M ² (One square metre)	

39	190 RM (One hundred and ninety running metre)	Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes of size 160mm having a working pressure of 4 kg / sq.cm including cost of necessary PVC shoe, PVC bend, C.I. gratings of required dia. 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 cost of removable iron grating. The PVC pipe shall be fixed on wall with special type of clamps. Special type "U" clamp at the centre of the pipe line shall be fixed in addition to those for more than 3.0M pipe length complying with standard specification.	97	VI (S6) VII.3		1 RM (One running metre)	
40		Supplying and fixing in position best quality 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 below ground level					
a	120 RM (One hundred and twenty running metre)	110 mm dia				1 RM (One running metre)	

b	75 RM (Seventy five running metre)	75 mm dia				1 RM (One running metre)	
41		Supplying and fixing in position best quality 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 above ground level					
a	145 RM (One hundred and forty five running metre)	110 mm dia				1 RM (One running metre)	
b	135 RM (One hundred and thirty five running metre)	90 mm dia				1 RM (One running metre)	

42		Supplying, laying 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 PVC specials using PVC 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 the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges, etc., complete complying with standard specifications. The PVC pipes shall be got approved by Executive Engineer before use on works.					
a	170 RM (One hundred and seventy running metre)	40 mm dia				1 RM (One running metre)	
b	60 RM (Sixty running metre)	32 mm dia				1 RM (One running metre)	
c	300 RM (Three hundred running metre)	25 mm dia				1 RM (One running metre)	

d	290 RM (Two hundred and ninety running metre)	20 mm dia				1 RM (One running metre)	
43		Supplying and fixing in position PVC specials of the following dia and types of approved quality confirming to BIS and providing leak proof joints including fixing to the walls and giving connection to the PVC soil stacks, dismantling the masonry or RCC works and re-doing the dismantled portion to original condition etc., complete complying with standard specifications. (The PVC specials should be got approved by the Executive Engineer before use on works).					
a	140 Nos (One hundred and forty numbers)	110 mm Dia Door Tee				1 No (Each)	
b	152 Nos (One hundred and fifty two numbers)	110 mm Dia Door Elbow				1 No (Each)	
c	40 Nos (Forty numbers)	110 mm Dia Door " Y "				1 No (Each)	

d	2 Nos (Two numbers)	110 MM Dia Cowl				1 No (Each)	
e	16 Nos (Sixteen numbers)	110 mm Dia Plain Elbow				1 No (Each)	
f	5 Nos (five numbers)	110 mm Dia bend				1 No (Each)	
g	126 Nos (One hundred and twenty six numbers)	90 mm Dia Door Tee				1 No (Each)	
h	160 Nos (One hundred and sixty numbers)	90 mm Dia Door Elbow				1 No (Each)	

i	49 Nos (Forty nine numbers)	90 mm Dia Plain Elbow				1 No (Each)	
j	18 Nos (Eighteen numbers)	90 mm Dia Door " Y "				1 No (Each)	
k	2 Nos (Two numbers)	90 mm Dia bend				1 No (Each)	
l	5 Nos (five numbers)	75 MM Dia Cowl				1 No (Each)	

44		Supplying and fixing in position the following UPVC specials of heavy type and approved quality and good variety excluding fixing charges but including necessary cutting and threading of UPVC pipes, jointing the UPVC specials and painting with two coats with good variety and best quality synthetic enamel paint over a coat of red oxide primer and jointing the specials with pipe line using shellac etc. complete complying with standard specification (The UPVC specials should be got approved by the Executive Engineer concerned before use on works)					
		Coupler					
a	8 Nos (Eight numbers)	20 mm dia				1 No (Each)	
b	12 Nos (Twelve numbers)	25 mm dia				1 No (Each)	
c	12 Nos (Twelve numbers)	32 mm dia				1 No (Each)	

d	15 Nos (Fifteen numbers)	40 mm dia				1 No (Each)	
		Elbow					
e	48 Nos (Forty eight numbers)	20 mm dia				1 No (Each)	
f	132 Nos (One hundred and thirty two numbers)	25 mm dia				1 No (Each)	
g	24 Nos (Twenty four numbers)	32 mm dia				1 No (Each)	
h	20 Nos (Twenty numbers)	40 mm dia				1 No (Each)	

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Contractor

Chief Engineer

		Tee					
i	260 Nos (Two hundred and sixty numbers)	20 mm dia				1 No (Each)	
j	154 Nos (One hundred and fifty four numbers)	25 mm dia				1 No (Each)	
k	12 Nos (Twelve numbers)	32 mm dia				1 No (Each)	
l	24 Nos (Twenty four numbers)	40 mm dia				1 No (Each)	
		Bend					

m	60 Nos (Sixty numbers)	25 mm dia				1 No (Each)	
n	32 Nos (Thirty two numbers)	20 mm dia				1 No (Each)	
		Reducer					
o	38 Nos (Thirty eight numbers)	20 mm x 15 mm dia				1 No (Each)	
p	12 Nos (Twelve numbers)	25 mm x 20 mm dia				1 No (Each)	
q	12 Nos (Twelve numbers)	32 mm x 25 mm dia				1 No (Each)	

r	3 Nos (Three numbers)	40 mm x 32 mm dia				1 No (Each)	
		Reducer Tee					
s	6 Nos (Six numbers)	20 mm x 15 mm dia				1 No (Each)	
t	6 Nos (Six numbers)	25 mm x 20 mm dia				1 No (Each)	
u	12 Nos (Twelve numbers)	32 mm x 25 mm dia				1 No (Each)	
v	3 Nos (Three numbers)	40 mm x 32 mm dia				1 No (Each)	

		Reducer Elbow					
w	6 Nos (Six numbers)	20 mm x 15 mm dia				1 No (Each)	
x	6 Nos (Six numbers)	25 mm x 20 mm dia				1 No (Each)	
y	12 Nos (Twelve numbers)	32 mm x 25 mm dia				1 No (Each)	
z	3 Nos (Three numbers)	40 mm x 32 mm dia				1 No (Each)	
45	80 Nos (Eighty 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. (Taps should be got approved by the Executive Engineer before use on the works)				1 No (Each)	

46	4 Nos (Four numbers)	Supplying and fixing in position of CP Two way Bib Cock with Health Faucet etc complete				1 No (Each)	
47	55 Nos (Fifty five numbers)	Supplying and fixing in position PVC Nahini trap of size 110x75mm with best pvc gratings of approved brand and quality with fixed over a bed of brick jelly lime concrete 1:2:5(one part of lime,two parts of sand and five parts of 40mm size brick jelly)and finished with cement Mortar 1:3(one cement and three sand)including dismantling masonry works wherever found necessary and making good the damaged portions to the original condition giving connections to the pipe etc., complete complying with standard specification and as directed by the departmental officers. (The PVC Nahini trap with grating should be got approved by the departmental officer before use on works).	Spl			1 No (Each)	
48		Supplying and fixing in position best quality and approved variety of new Gun Metal Gate Valve / Wheel Valve heavy type excluding the fixing charges but including necessary cutting & threading of GI pipes for jointing the GI specials and providing two coats of painting with good quality and approved variety of anti-corrosive paint over a coat of red oxid primer coat in the case of pipe line above ground level and one coat of tarring in the case of pipe line below ground level etc., complete	Spl				
a	12 Nos (Twelve numbers)	25mm dia Gate valve				1 No. (Each)	

49	12 Nos (Twelve numbers)	Supplying and fixing in position best quality of approved make white glazed earthenware wash hand basin (with pedestal/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)	Spl			1 No (Each)	
50	38 Nos (Thirty eight 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 Oriya type Water Closet and all accessories should be got approved by the departmental officers before use on work)	Spl			1 No (Each)	

51	11 Nos (Eleven numbers)	Supplying and fixing in position White/colour 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 etc., complete complying with standard specification and as directed by the departmental officers. (The European Water Closet and flushing tank should be got approved by the Departmental Officers before use on work.)	Spl				1 No (Each)	
52	2 Nos (Two numbers)	Supplying and fixing in position best quality approved make white glazed earthenware sink of size of 600 x 450 x 200mm including cost of 32mm dia CP waste coupling, 32mm dia PVC waste pipe with rubber plug and chain, 15mm dia brass nipple including fixing the sink in position and testing for leakages etc., complete complying with standard specifications excluding CI brackets. [The sink and specials should be got approved by the Executive Engineer before use on works]					1 No (Each)	

53	3 Nos (Three numbers)	Reconstruction of Manhole chamber for the following sizes 600mmx600mmx900mm (200mm above ground level and the remaining depth of manhole below ground level) with earth work excavation in all soils and sub soils and to full depth as may be directed except hard rock requiring blasting, but inclusive of shoring, strutting and bailing out water wherever necessary and refilling the sides with excavated earth and laying with base cement concrete of 1:5:10 using 40mm HBGS jelly 100mm thick over a sand cushion of 100mm thick. The chamber shall be constructed with brick masonry of 230mm thick in CM 1:5 using ground moulded chamber burnt second class bricks of size 9"x43/8"x23/4". The inner bottom side of the chamber shall be plastered with CM 1:3, 20mm thick. The outer side and top of the chamber of wall to a depth of 300mm shall be plastered with CM 1:5, 12mm thick supply and fixing of manhole cover of size 0.60m x 0.60m heavy duty with frame and fixing of the top of the manhole chamber with cement slurry packinglete complying with standard specification. ggregates to be used should comply with the requiremen				1 No (Each)	
54	1050 M ² (One thousand fifty square metres)	Supplying and laying of 60 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 ² 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 ² (One square metre)	

55	4 Nos (Four numbers)	Supplying and Fixing of PVC ready made water tank 2000 Litres capacity 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).	Spl			1 No (Each)	
56	258 M ³ (Two hundred and fifty eight cubic metres)	Collecting the scattered debries from the campus and conveying away the same to outside by lorry to a lead of 3 KMMR including loading and Unloading charges etc complete				1 M ³ (One cubic metre)	
57	275 M ² (Two hundred and seventy five square metre)	Painting the new wood work two coats 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).	66A	V.VII. 3 & 15		1 M ² (One square metre)	
						TOTAL	
				12%		GST	
						GRAND TOTAL	
		57 items (Fifty seven items)					