

NAME OF WORK:- Special maintenance and Repairs in Science Block, Arts Block, Road, Compound wall and other repair works in Government Arts College, Nandanam, Chennai 35

SCHEDULE A

EMD: Rs. 84500/-						Date: 05.04.2022	
Sl. No	Qty	Description of Work	TN BP NO.	NBC NO.	Rate in figure and Words	Unit	Amount
1	1900 M ² (One thousand nine hundred 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	20 M ³ (Twenty cubic metres)	Dismantling , clearing away and carefully stacking materials useful for re-use for Reinforced cement concrete etc complete complying with standard specification				1 M ³ (One cubic metre)	
3	30 M ³ (Thirty 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)	

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Contractor

Chief Engineer

4	380 M ² (Three hundred and eighty 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	54 M ² (Fifty four square metres)	Cleaning the surface throughly chipping and removing mortar dust etc complete				1 M ² (One square metre)	
6	55 M ² (Fifty five square metres)	Clean Removal of cement plaster from walls etc complete				1 M ² (One square metre)	
7	6.40 M ³ (Six point four zero cubic metres)	Dismantling , clearing away and carefully stacking materials useful for re-use for Doors and Windows along with frame etc complete complying with standard specification				1 M ³ (One cubic metre)	

8	117 M ³ (One hundred and seventeen 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)	
9	109 M ³ (One hundred and nine 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)	
10	12 M ³ (Twelve 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)	
11	13 M ³ (Thirteen 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)	

12	110 M ³ (One hundred and ten cubic metres)	Cement Concrete 1:1-1/2:3 (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers. For foundation and basement.					
13	80 M ² (Eighty 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)	
14		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	300 M ² (Three hundred square metres)	For plane surfaces such as vertical slab, side slabs of boxing, vertical drops, facia, vertical wall, etc.				1 M ² (One square metre)	
b	90 M ² (Ninety square metres)	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.				1 M ² (One square metre)	
15		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 transverse 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; complete complying with standard specification and as directed by the departmental officers.					
a	50 RM (Fifty running metre)	For an initial height of 3 M and length of 1 M				1 RM (One running metre)	

b	50 RM (Fifty running metre)	For every additional height of 2.5 M Height				1 RM (One running metre)	
16		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	23 M ³ (Twenty three cubic metres)	For foundation and basement				1 M ³ (One cubic metre)	

b	35 M ³ (Thirty five cubic metres)	For superstructure in ground floor				1 M ³ (One cubic metre)	
17	140 Qtl (One hundred and forty 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)	
18		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	20 M ³ (Twenty cubic metres)	For Foundation and basement				1 M ³ (One cubic metre)	
b	5 M ³ (Five cubic metres)	For Superstructure in ground Floor				1 M ³ (One cubic metre)	

19	17 M ³ (Seventeen cubic metres)	Relaying with brick jelly lime concrete using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.				1 M ³ (One cubic metre)	
20	20 RM (Twenty running metre)	Providing expansion joint of 12.50mm width in RCC roof slabs between RCC twin beams using PVC water bar of 150mm wide centre bulb of 4mm to 6mm thickness of approved quality and brand and including filling the inner space with suitable non - absorbent, flexible and well compressible filler materials of approved quality and covering top surface with GI sheet 30cm wide and 1.6mm thick using phill plugs, GI screws, limpet cup washers, bitumen washers, etc., complete complying with standard specifications and as directed.				1 RM (One running metre)	
21	455 M ² (Four 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)	
22	454 M ² (Four hundred and fifty four 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)	

23	220 M ² (Two 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)	
24	235 M ² (Two hundred and thirty five 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)	
25	283M ² (Two hundred and eighty three 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)	

26	2015 M ² (Two thousand fifteen 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)	
27	160 M ³ (One hundred and sixty 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)	
28	45 RM (Forty five running metre)	Supplying and fixing of PVC corner bedding of best approved quality and colour standard size and thickness of required height of walls using cement mortar 1:2 (One cement and two sand) and finishing the surface smooth with ceramic tiles etc., complete complying with standard specification and as directed by the departmental officers.	Spl			1 RM (One running metre)	
29	439 M ³ (Four hundred and thirty nine 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)	

30	38 M ² (Thirty eight 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 ² (One square metre)	
31	439M ² (Four hundred and thirty nine 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)	
32	35 M ² (Thirty 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)	
33	540 kg (Five hundred and forty 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)	

34	13 M ² (Thirteen 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)	
35	900 RM (Nine hundred 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)	
36	483 M ² (Four hundred and eighty three square metre)	White washing one coat with freshly burnt white shell lime in all floors including cost of lime, blue powder fevicol type gum, brushes, scaffolding charges, etc., complete complying with standard specification and as directed.	61 V, VI (S4) 3			1 M ² (One square metre)	
37	110 M ² (One hundred and ten square metre)	Colour washing two coats in all floors using best freshly burnt white shell lime and best quality of approved variety of colouring pigment including cost of lime, colouring pigments, fevicol type gum, brushes, scaffolding charges etc., complete complying with standard specification. Mineral colouring pigments not affected by lime should only be used (stainers and colour solutions should not be used.)				1 M ² (One square metre)	

38	4814 M ² (Four thousand eight hundred and fourteen 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	8415 M ² (Eight thousand four hundred and fifteen 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)	
40	21 Nos (Twenty one 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)	

41	4 Nos (Four 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)	
42	12 Nos (Twelve numbers)	Supply and fixing in position of best Indian make white / colour glazed earthenware lipped mouth flat back urinal of best quality and approved make of size 430mm x 260mm x 350mm with GI pipe, 32mm dia bell mouth PVC connection and waste pipe, 15mm dia GI pipe of required length, 15mm dia GM wheel valve, 15mm dia brass nipple 2 Nos., and fixing the urinals in position with necessary TW plugs, clamps, screws, etc., including dismantling masnory and re-doing the same to the original condition, etc., including painting the pipe with two coats of best quality approved synthetic enamel paint over one coat of red oxide primer and checked without any leakage etc. complete complying with standard specifications and as directed by the departmental officers. (The urinal should be got approved by the Executive Engineer before use on works.)	Spl			1 No (Each)	

43	7 Nos (Seven numbers)	Supplying and fixing in position best quality of approved make white glazed earthenware wash hand basin (with 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)	
44	30 Nos (Thirty numbers)	Supplying and fixing in position of polished white marble slab (Adanga) of 20mm thick for urinal partition of size 1.20x0.60m including and fixing the marble slab with C.M.1:3 etc. complete complying with standard specification and as directed by the departmental officers.	Spl			1 No (Each)	
45	34 Nos (Thirty four 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)	Spl			1 No (Each)	

46	36 Nos (Thirty six 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)	
47	4 Nos (Four numbers)	Supplying and fixing in position Indian make bevelled edge mirror of approved quality and brand of size 600x450mm x5.5mm thick with necessary plastic back, PVC frame with bottom stand of approved colour with brass screws, rawal plugs etc. complete complying with standard specification and as directed by the departmental officers. (The materials should be got approved by the departmental officers before use on works)	Spl			1 No (Each)	
48		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	172 RM (One hundred and seventy two running metre)	75 mm dia PVC Pipe				1 RM (One running metre)	
b	180 RM (One hundred and eighty running metre)	110 mm dia PVC Pipe				1 RM (One running metre)	
c	512.50 RM (Five hundred and twelve point five zero running metre)	160 mm dia PVC Pipe				1 RM (One running metre)	
49		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	365 RM (Three hundred and sixty five running metre)	50 mm dia UPVC Pipe				1 RM (One running metre)	
b	200 RM (Two hundred running metre)	25 mm dia UPVC Pipe				1 RM (One running metre)	
c	160 RM (One hundred and sixty running metre)	20 mm dia UPVC Pipe				1 RM (One running metre)	
50		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)					

a	24 Nos (Twenty four numbers)	50 mm dia UPVC Tee				1 No (Each)	
b	4 Nos (Four numbers)	50 mm dia UPVC Bend				1 No (Each)	
c	12 Nos (Twelve numbers)	50 mm dia UPVC Elbow				1 No (Each)	
d	32 Nos (Thirty two numbers)	50 mm dia UPVC Coupling				1 No (Each)	
e	24 Nos (Twenty four numbers)	50 mm dia UPVC Union				1 No (Each)	

f	8 Nos (Eight numbers)	50 mm dia UPVC Nipple				1 No (Each)	
g	12 Nos (Twelve numbers)	25 mm dia UPVC Coupling				1 No (Each)	
h	75 Nos (Seventy five numbers)	25 mm dia UPVC Elbow				1 No (Each)	
i	6 Nos (Six numbers)	25 mm dia UPVC Bend				1 No (Each)	
j	69 Nos (Sixty nine numbers)	25 mm dia UPVC Tee				1 No (Each)	

k	15 Nos (Fifteen numbers)	25 mm dia UPVC Union				1 No (Each)	
l	14 Nos (Fourteen numbers)	20 mm dia UPVC Coupling				1 No (Each)	
m	8 Nos (Eight numbers)	20 mm dia UPVC Bend				1 No (Each)	
n	10 Nos (Ten numbers)	20 mm dia UPVC Tee				1 No (Each)	
o	15 Nos (Fifteen numbers)	20 mm dia UPVC Union				1 No (Each)	

p	8 Nos (Eight numbers)	20mm x 15 mm dia UPVC Reducer Tee				1 No (Each)	
51		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)	50mm dia Gate valve				1 No. (Each)	
b	10 Nos (Ten numbers)	25mm dia Gate valve				1 No. (Each)	

52	12 Nos (Twelve numbers)	Supplying and fixing in position of Cast Iron Man hole cover with CI frames of size 600x600x900mm (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 Cast Iron Man hole cover should be got approved by the departmental officers before use on work).	Spl				
53	60 Nos (Sixty numbers)	Supplying & Laying 300 mm Dia R.C.C Hume pipe etc complete				1 No (Each)	
54		Supplying and Fixing of PVC ready made water tank 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				
a	9 Nos (Nine numbers)	2000 Litres capacity				1 No (Each)	

b	1 No (One number)	1000 Litres capacity				1 No (Each)	
55	1 No (One number)	Supplying and erecting 5.00 H.P.mono block 3 phase (300x50 lpmxm) motor with DOL Starter of approved make conforming to ISI.including cost of all accessories, transportation charges, labourcharges for erecting and fixing the motor in position testing as directed by the Departmental Officers complete complying with standard specification. The quality and standard of product should be got approved by the Departmental Officers before erecting. Necessary warranty card should be produced before erection of Motor.				1 No (Each)	
56		Removing the existing vegetation growth in the building etc complete					
a	80 Nos (Eighty numbers)	Big plant				1 No (Each)	
b	140 Nos (One hundred and forty numbers)	Small plant				1 No (Each)	

57	810 M ² (Eight hundred and ten square metres)	Clearing the Heavy jungle etc complete				1 M ² (One square metre)	
58	106 M ³ (One hundred and six 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)	
						TOTAL	
				12%		GST	
						GRAND TOTAL	
		58 items (Fifty eight items)					