

Schedule - A						
NAME OF WORK :		Special maintenance and repair works for various Building in Thiruvalluvar Government Arts College at Rasipuram.				
EMD: Rs.88,500/-				Date: 07.06.2022		
Sl. No	Qty	Description of Work	TN BP NO.& NBC	Rate in Words	Unit	Amount
		CIVIL WORK				
1	72 M ² (Seventy two square metres)	Dismantling clearing away and carefully stacking materials useful for reuse for any thickness of floor finish and dadoing walls in cement mortar with Mosaic tiles etc., complete complying with standard specification and as directed by the Departmental officers.			1 M ² (One square metre)	
2	530 M ² (Five hundred and thirty square 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 ² (One square metre)	
3	1.5 M ³ (One point five 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 ³ (One cubic metre)	

4	195 M ³ (One hundred and ninety five cubic metres)	Earthwork excavation for 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 ³ (One cubic metre)	
5	505 M ³ (Five hundred and five cubic metres)	Earthwork Open 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 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 ³ (One cubic metre)	
6	108 M ³ (One hundred and eight cubic metres)	Supplying and Filling in foundation and basement with filling 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.			1 M ³ (One cubic metre)	

7	49 M ³ (Forty nine 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 basement 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.			1 M ³ (One cubic metre)	
8		Brick work in cement mortar 1: 5 (one cement and five M sand) using Fly Ash bricks of size 230 × 110 × 70mm 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	148 M ³ (One hundred and forty eight cubic metres)	for foundation and basement			1 M ³ (One cubic metre)	
9	110 M ³ (One hundred and ten cubic metres)	Refilling basement with excavated earth other than M sand with an initial head lead of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15cm thick well rammed, watered and consolidated etc. complete complying with standard specification.			1 M ³ (One cubic metre)	

10	110 M ³ (One hundred and ten cubic metres)	Supplying and Filling in foundation and basement and trenches with Conveyed Gravel 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.			1 M ³ (One cubic metre)	
11	160 M ² (One hundred and sixty square metres)	Finishing the top of flooring with Granolithic floor finish of 25mm thick with plain cement concrete of mix 1:2:4 (one cement, two M sand and four aggregate) using 25mm / 10 to 12mm ISS gauge hard broken granite stone including finishing the top smooth and forming thread lining and curing as directed by the departmental officers complete complying with standard specification.			1 M ² (One square metre)	
12	1255 M ² (One thousand two hundred and fifty five square metres)	Supplying and laying of 63 mm thick high strength type of interlocking rubber moulded hydraulic pressed paver block of approved colour made up of designed concrete mix 1:1:2 using 10 to 12mm size HBG stone jelly in required shapes and sizes having minimum compressive strength of 40 N/mm 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)	

13	340 M ² (Three hundred and forty square metres)	Paving the floor with scratch proof vitrified tiles (like Marbonite or equivalent) of approved quality and colour of size 600x600x8mm thickness 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 0.30kg/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 lying 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 ² (One square metre)	
14		Supplying and erecting steel centering including necessary supports for plane 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 25mm x 25mm x 3mm 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)				

a	13 M ² (Thirteen square metres)	For Plain surfaces such as RCC slab, Beam, Bed Block, waist slab, landing slab, lintel etc.,			1 M ² (One square metre)	
b	200 M ² (Two hundred square metres)	For RCC vertical wall etc			1 M ² (One square metre)	

15		Providing and laying in position , standardised Concrete Mix M20 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 325 Kg/M3 and Maximum water cement ratio of 0.55 including admixture (plasticiser/super plasticiser) in recommended proportions as per IS 9103 as accelerate , retard setting of concrete improve workability without impairing strength and durability with about)5 cu.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 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	104 M ³ (One hundred and four cubic metres)	for foundation and basement			1 M ³ (One cubic metre)	

16	47 qtl (Forty seven quintal)	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 by the departmental officers.			1 qtl (One quintal)	
17	43 M ³ (Forty three 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.			1 M ³ (One cubic metre)	
18	530 M ² (Five hundred and thirty square metres)	Finishing the top of roof with one course of pressed tiles of size 23×23×2cm 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)	

19	945 M ² (Nine hundred and forty five square metres)	Plastering with cement mortar 1:5 (one cement and five M 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 departmental officer.			1 M ² (One square metre)	
20	603 M ² (Six hundred and three square metres)	Pointing the pressed tiles with cement mortar 1:3 (One cement and three sand) 12mm thick mixed with 2 % water proofing compound (confirming to Indian standard specification) by weight of cement., etc., complete complying with standard specification and as directed by the departmental officer.			1 M ² (One square metre)	
21	3925 M ² (Three thousand nine hundred and twenty five square metres)	Removing the old damaged tiles joint from the existing M.P tiles free from dust and applying the bonding agent in the gap and having the fill the gap with chemical materials combination SBR acrylic liquid integrated water proofing liquid and sand with cement. After filling the joint apply two coats of highly performance water proof membrane coating to the tiles surface including labour charges and materials etc.			1 M ² (One square metre)	

22		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)	
a	3.50 M ² (Three point five zero square metres)	Single leaves			1 M ² (One square metre)	

23		Supplying and fixing in position of 35mm thick solid core flush door shutters double leaf with TW ply on both sides and with TW lipping of size 35x12mm on all edges with necessary adhesives and C.P. Screws. Alu. Butt Hinges (6 nos. 250 x 16 mm Size), Alu. Aldrop 1 No. 250 x 16 mm Size, Alu. Tower Bolt 2 No. 250 x12 mm size, alu. Tower Bolt, 1 No. 200 x 12 mm size, D type alu. Handle 2 Nos, 2 Nos. of 200mm length alu. door stopper with rubber bush shall be provided, as directed by the departmental officers etc., complete.				
a	18.50 M ² (Eighteen point five square metres)	Double leaves			1 M ² (One square metre)	
b	10.50 M ² (Ten point five square metres)	Single leaves			1 M ² (One square metre)	

24		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; complete complying with standard specification and as directed by the departmental officers.				
a	14.40 RM (Fourteen point four zero running metres)	For height of 3.00 m			1 RM (One running metre)	
b	14.40 RM (Fourteen point four zero running metres)	For every additional height of 2.50 m (3.0 m to 5.5 m)			1 RM (One running metre)	

c	14.40 RM (Fourteen point four zero running metres)	For every additional height of 2.50 m (5.5 m to 8 m)			1 RM (One running metre)	
25		Supply and fixing in position best quality PVC Soil/ waste pipes 6 kg / sqcm of various size (Above Ground Level) having ISI mark and providing leak proof joints including fixing to the wall with special PVC /MS clamps, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever necessary and making good the dismantled portion to the original condition, complying with standard specification etc., complete.				
a	51 RM (Fifty one running metre)	110mm dia			1 RM (One running metre)	

26		Supply and fixing in position best quality PVC Soil/ waste pipes 6 kg / sqcm of various size (Below Ground Level) having ISI mark and providing leak proof joints including fixing to the wall with special PVC /MS clamps, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever necessary and making good the dismantled portion to the original condition, complying with standard specification etc., complete.				
a	40 RM (Forty running metre)	110mm dia			1 RM (One running metre)	
27		Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., 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. 110mm dia				

a	65 RM (Sixty five running metre)	160 mm dia			1 RM (One running metre)	
b	65 RM (Sixty five running metre)	110 mm dia			1 RM (One running metre)	
28		Supplying and fixing in position of the following PVC specials best approved quality conforming to BIS and providing leak proof joints with PVC adhesive etc., including fixing to walls with necessary teak wood plugs screws etc., and giving connections to the UPVC pipe dismantling the brick masonry RCC floor or roof slab and redoing the disturbed portion to original conditions etc., complete complying with standard specification.(The UPVC specials should be got approved from the Executive Engineer before use on works).				

a	12 Nos (Twelve numbers)	110mm dia PVC Tee			1 No. (Each)	
b	12 Nos (Twelve numbers)	110mm dia PVC y with double door			1 No. (Each)	
29	161 RM (One hundred and sixty one running metre)	Cleaning in the crack in brick masonry wall to be free of dust cutting with "U" grew and apply to building agent one coating, fill in the crack filler (mixing - crack filler, fibre, SBR liquid) and the apply of Fill - A - cap material with saft secured coat., etc complete complying with satandar specifications and as directed by the departmental officers.			1 RM (One running metre)	
30	148 M ² (One hundred and forty eight square metres)	Cleaning the corroed reinforcement free from dust and apply anti corrosive coating including labour charges and materials etc. complete complying with satandar specifications and as directed by the departmental officers.			1 M ² (One square metre)	

31	170 M ² (One hundred and seventy 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 ² (One square metre)	
32	6620 M ² (Six thousand six hundred and twenty 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 ² (One square metre)	
33	14089.53 M ² (Fourteen thousand and eighty nine point five three 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.			1 M ² (One square metre)	

34	8320 M ² (Eight thousand three hundred and twenty square metres)	Painting the exterior wall surface two coats with best and approved first quality and colour of Exterior Emulsion Paint in all floors over one coat of primer including preparation of surface, wall putty two coats with good quality of wall putty including cost of wall putty, emmery sheet, plates etc., and including labour charges for rubbing the wall scrapping putty pasting works and making good smooth surface and finishing neatly etc., The cost inclusive of preparation of surface, cost of all materials, brushes, scaffolding charges etc., complete complying with standard specification and as directed by the departmental officers., etc. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on work)			1 M ² (One square metre)	
35	990 M ² (Nine hundred and ninety square metres)	Painting the old 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 officers before use on work.			1 M ² (One square metre)	
36	2260 M ² (Two thousand two hundred and sixty square metres)	Painting old wood two coats 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. (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)	

37	70 M ² (Seventy square metres)	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).			1 M ² (One square metre)	
38	410 M ² (Four hundred and ten square metres)	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 officers before use on work.			1 M ² (One square metre)	
39	2 Nos (Two numbers)	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). 1000 litres			1 No. (Each)	

40	10003.50 Kg (Ten thousand three point five zero 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 .			1 kg (one kilogram)	
41	36 M ² (Thirty six square metres)	Supplying and fixing powder coated Galvalium sheet for head room roof with necessary U or J bolts screws nails and bitumen washers including cost of fixing charges etc., complete complying with standard specification and as directed by the departmental officers.			1 M ² (One square metre)	
42	1020 M ² (One thousand and twenty square metres)	Supply and fixing in position of GI Chain link fencing etc., complete complying with standard specification and as directed by the departmental officers.			1 M ² (One square metre)	
				TOTAL		
				GST 12 %		
				GRAND TOTAL		
	42 Items (Forty two items only)					