

Schedule - A						
NAME OF WORK :		Special maintenance and repair works for various Building in Aringar Anna Government Arts College at Namakkal.				
EMD: Rs.72,500/-				Date: 07.06.2022		
Sl. No	Qty	Description of Work	TN BP NO.& NBC	Rate in Words	Unit	Amount
		CIVIL WORK				
1	162 M ² (One hundred and sixty two square metres)	Dismantling clearing away and carefully stacking materials useful for reuse for any thickness of 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	1066 M ² (One thousand and sixty six square metres)	Dismantling clearing away and carefully stacking materials useful for reuse for any thickness of One course of Pressed tiles roof finished in cement mortar complete complying with standard specification and as directed by the Departmental officers.			1 M ² (One square metre)	

3	180 M ³ (One hundred and eighty cubic metres)	Earthwork excavation for narrow foundation in all soils and sub soils to full depth as may be directed except in hard rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary refilling the foundation with excavated earth other than sandy soil in the layers of not more than 15cm thick layers well rammed and deposing the surplus earth within compound in places shown by the departmental officers with an initial lead 10 metre and initial lift of 2 metre and clearing and leveling the site etc., complete complying with standard specification and as directed by the departmental officers.			1 M ³ (One cubic metre)	
4	417 M ³ (Four hundred and seventeen 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)	
5	210 M ³ (Two hundred and ten 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)	

6	59.50 M ³ (Fifty nine point five zero 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)	
7		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	62 M ³ (Sixty two cubic metres)	for foundation and basement			1 M ³ (One cubic metre)	
b	18.50 M ³ (Eighteen point five zero cubic metres)	For Super Structure in Ground Floor			1 M ³ (One cubic metre)	

c	6 M ³ (Six cubic metres)	For Super Structure in Second Floor			1 M ³ (One cubic metre)	
8	30 M ³ (Thirty cubic metres)	Refilling 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)	
9	15 M ³ (Fifteen 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)	
10	1026 M ² (One thousand and twenty six square metres)	Finishing the top of flooring with Granolithic floor finish of 40mm 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)	

11	1500 M ² (One thousand five hundred 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)	
12		Plain Cement concrete 1:2:4 (one cement, two M sand and four aggregate) using 20mm gauge hard broken blue granite stone jelly for flooring, 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.				
a	36 M ³ (Thirty six cubic metres)	For Super Structure in Ground Floor			1 M ³ (One cubic metre)	

b	41 M ³ (Forty one cubic metres)	For Super Structure in Second Floor			1 M ³ (One cubic metre)	
13	1060 M ² (One thousand and sixty square metres)	Finishing the top roof with one course of solar reflecting ceramic tiles of size 305x305x7mm thick of approved quality set in cement mortar 1:3 (One cement and three sand) (12mm thick) and mixed with for 10M2 / 4.00 kg Epoxy Packing conforming to ISS including curing etc., complete complying with standard specification and as directed by the Departmental officers.			1 M ² (One square metre)	
13	170 M ² (One hundred and seventy 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 standared 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	22 M ² (Twenty two square metres)	For Plain surfaces such as RCC slab, Beam, Bed Block, waist slab, landing slab, lintel 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	44 M ³ (Forty four cubic metres)	for foundation and basement			1 M ³ (One cubic metre)	

16	18 qtl (Eighteen 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	16.50 M ³ (Sixteen point five zero 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	241 M ² (Two hundred and forty one 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	690 M ² (Six hundred and ninety 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	935 M ² (Nine hundred and thirty five 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	3475 M ² (Three thousand four hundred and seventy 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 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	107 M ² (One hundred and seven square metres)	Double leaves			1 M ² (One square metre)	
23		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	20 RM (Twenty running metre)	110mm dia			1 RM (One running metre)	
24		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	4 Nos (Four numbers)	110mm dia PVC Tee			1 No. (Each)	
b	4 Nos (Four numbers)	110mm dia PVC y with double door elbow			1 No. (Each)	

25	60 RM (Sixty 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)	
26	22 M ² (Twenty two 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)	
27	52.50 M ² (Fifty two point five zero 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)	

28	4005 M ² (Four thousand and five 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)	
29	8620 M ² (Eight thousand six hundred and twenty 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)	
30	4520 M ² (Four thousand five 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)	

31	1215 M ² (One thousand two hundred and fifteen 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)	
32	1620 M ² (One thousand six hundred and twenty 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)	
33	256 M ² (Two hundred and fifty six 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)	

34	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)	
35	18 RM (Eighteen running metre)	Supplying and fixing of NP3 class hume pipe of flush joint to a size 300mm RCC wall with 25mm thick to a length of 30cm in RCC M 35 with nominal special reinforcement as directed by the departmental officers etc., complete complying with standard specification.			1 RM (One running metre)	
36	800 Kg (Eight hundred 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)	

37		Supplying, laying and joining UPVC pipes of approved quality and best variety conforming to ISS with ISI mark, of the the Following size below Ground level laid properly to alignment including cutting, threading and fixing the required PVC specials but excluding the cost of such specials etc., complete.				
a	175 RM (One hundred and seventy five running metre)	50 mm dia -- UPVC Pipe			1 RM (One running metre)	
38		Supplying, laying and joining UPVC pipes of approved quality and best variety conforming to ISS with ISI mark, of the the following size above Ground level up to 4 M hight laid properly to alignment including cutting, threading and fixing the required UPVC specials but excluding the cost of such specials and fixing to the wall with necessary TW plugs, clamps and screws, making holes on the wall or drilling holes in the roof and making good dismantled portion to original condition with necessary brick work, concrete and plastering wherever necessary with necessary scaffolding charges etc., complete.				
a	15 RM (Fifteen running metre)	40 mm dia -- UPVC Pipe			1 RM (One running metre)	

39		Supplying and fixing in position of the following UPVC 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	3 Nos (Three numbers)	50mm dia UPVC Union			1 No. (Each)	
b	2 Nos (Two numbers)	40mm dia UPVC Union			1 No. (Each)	
c	15 Nos (Fifteen numbers)	50mm dia UPVC Coupler			1 No. (Each)	

d	4 Nos (Four numbers)	40mm dia UPVC Coupler			1 No. (Each)	
e	1 No (One numbers)	40mm dia UPVC Tee			1 No. (Each)	
f	1 No (One numbers)	50 x 40 mm dia UPVC Reducer			1 No. (Each)	
g	2 Nos (Two numbers)	50mm dia UPVC bend			1 No. (Each)	
h	2 Nos (Two numbers)	40mm dia UPVC elbow			1 No. (Each)	

i	2 Nos (Two numbers)	50mm dia UPVC Elbow			1 No. (Each)	
40		Supplying and fixing in position best quality and approved variety of new Gun Metal Gate 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				
a	2 Nos (Two numbers)	50mm Dia -Gate Valve			1 No. (Each)	
b	2 Nos (Two numbers)	40mm Dia -Wheel Valve			1 No. (Each)	

41	162 M ² (One hundred and sixty two square metres)	Supplying, fabricating, erecting and fixing new GYP BOARD FALSE CEILING using 10mm thick plain sheets of approved quality and design suspended from ceiling using 'U' shaped GI channels of size 25mmx0.55mm thick at 1.2m c/c on both longitudinal and cross direction for vertical supports and fixing 'U' shaped GI channels of size 50mmx30mmx0.55mm thick at 0.90m c/c in cross direction and longitudinal direction respectively for horizontal support by using teak wood reapers at corners and intermediately fixing plaster of paris on the panel provided as per design/pattern given by the site Officer and finishing the ceiling surface with same plaster of Paris materials etc., necessary opening should be made for providing spot light florecent tubes in the ceiling complying with standard specification two coat of distempering and as directed by the Departmental officers.			1 M ² (One square metre)	
42	54 RM (Fifty four running metre)	Supply and fixing cornice work for false ceiling etc., complete complying with standard specification and as directed by the departmental officers .			1 RM (One running metre)	
				TOTAL		
				GST 12 %		
				GRAND TOTAL		
	42 Items (Forty two items only)					