

Schedule - A						
NAME OF WORK :		Special repairs and ordinary repairs to various buildings in Raja Serfoji Government College in Thanjavur.				
EMD: Rs. 86,500/-				Date: 05.04.2022		
Sl. No	Qty	Description of Work	TN BP NO.& NBC	Rate in Words	Unit	Amount
		CIVIL WORK				
1	436 M ² (Four hundred and thirty six square metres)	Dismantling clearing away and carefully stacking materials useful for reuse for any thickness of weathering course and pressed tiles of one course roof finish in cement mortar 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)	
2	15.50 M ³ (Fifteen point five zero cubic metres)	Dismantling clearing away and carefully stacking materials useful for resuse for any thickness of Brick masonry etc., complete complying with standard specification and as directed by the Departmental officers.			1 M ³ (One cubic metre)	
3	193.50 M ² (One hundred and ninety three point five zero square metres)	Dismantling clearing away and carefully stacking materials usefull for reuse for doors and windows including removal of frames, hinges and fastenings in any thickness of walls etc complete complying with standard specification and as directed by the Departmental officers.			1 M ² (One square metre)	

4	1395.50 M ² (One thousand three hundred and ninety five point five zero square metres)	Dismantling clearing away and carefully stacking materials usefull for reuse for for Manglore tile over flat tiles, with out roof timbers etccomplete complying with standard specification and as directed by the Departmental officers.			1 M ² (One square metre)	
5	164.50 M ² (One hundred and sixty four point five zero square metres)	Dismantling the spalled and loose concrete, completely and clearing, thoroughly washing the concrete with adequate portable water, removing the corroded portion using rust removing chemical applying zinc based anti corrosive paint for the rods, applying the epoxy based bonding chemical to the exposed concrete surface such that the coating is continuous without any break and preparing the modified polymer mortar in C.M. 1:3 using polymer based bonding chemical and applying the same is two coats of mortar layer after the bonding compound gets dry. The second coat to be applied when the surface is completely dried after application of first coat. The cost inclusive of cost of all materials and labour required for the works including cost of necessary scaffolding required for the work as directed by the Departmental Officers etc.complete. The materials used should be accordance with relevant IS.specifications.			1 M ² (One square metre)	

6	13.50 M ³ (Thirteen point five zero cubic metres)	Earthwork 3excavation 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)	
7	218.50 M ³ (Two hundred and eighteen point five zero cubic metres)	Earthwork open 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)	
8	0.15 M ³ (Point one five cubic metres)	Supplying and filling in foundation and basement with CS sand/ Filling sand in layers of not more than 15cm thick well watered, rammed and consolidated etc., complete as per standard specification.			1 M ³ (One cubic metre)	

9	0.15 M ³ (Point one five cubic metres)	Plain CEMENT CONCRETE of mix 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)	
10	436 M ³ (Four hundred and thirty six cubic metres)	Finishing the top of roof with One course of New pressed tiles of size approved quality of size 23cmx23cmx2cm laid in cement mortar base layer 1:3 (one cement and three M sand) 12mm thick mixed with water proofing compound of approved quality at 2% by weight of cement used and pointed with same mixed with water proofing compound and red oxide to full depth of tiles curing as directed by the departmental officers complete complying with standard specification. The rate is excluding of cost of tiles, but including cost of all other materials and labour charges.			1 M ³ (One cubic metre)	
11	5262 M ² (Five thousand two hundred and sixty two square metres)	Flex coating with poly carbonate chemical in respect as per ratio in standard specification, etc, complete complying with standard specification and as directed by the departmental officers.			1 M ² (One square metre)	

12		Brick work in cement mortar 1:6 (one cement and six M sand) using III class kiln burnt country bricks of size 8 3/4" 4 1/4" 2 1/4" and finishing neatly curing etc., complete complying with standard specifications and as directed by the departmental officers. (Masonry projections wherever necessary for obtaining required elevation shall be done without extra cost).				
a	0.60 M ³ (Point six zero cubic metres)	for foundation and basement			1 M ³ (One cubic metre)	
13	1 M ² (One square metres)	Plastering with cement mortar 1:5 (one cement and five Psand) 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)	
14	80 M ² (Eighty square metres)	Special ceiling plastering in all floors and finishing the exposed surface of RCC items of work such as slab, beam, sunshade, fascia, 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.			1 M ² (One square metre)	

15	201 M ² (Two hundred and one square metres)	Paving the floor with Double charged 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)	
16	25 M ² (Twenty five square metres)	Paving the floor with Plain ceramic tiles of size 305 x 305 x 6 mm of approved quality and colour of size 305x305x6mm 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.of white cement per square metre 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 as directed by the Departmental Officers complete complying with standard specification.The tiles should be got approved by the Departmental Officers before use on work.			1 M ² (One square metre)	

17	<p>Manufacturing, Supplying and Fixing in position of steel window with following specifications. The outer frame of window made out "Z" section (F7D) of size 33x25x3mm at 1.419 Kg/m and mullion of "J" section (F4B) of size 45x25x3mm at 2.28 Kg/m. Shutter made out of (F7D) section of size 33x22x3mm at 1.419 Kg/m. Each openable shutter should not be exceeded a width 600mm to enable separate operations and easy maintenance. 2Nos. of sturdy hinges and one number of handle cum latch of special type make with 18x5 MS flat are revetted to the shutters of an appropriate height in each window shutter. Suitable opening is left for its easy operation. A stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. Each shutter having an adjustable window stay made out of 18mmx5mm at 0.70 kg/m MS flat of length 320mm with free adjustable positions. A matching peg is provided in the outer frame of the window, at suitable place, 4Nos of holdfasts of 200mm length MS angle 40x40x6mm the ends are welded to the outer frame of the window, 18 mmx 5 mm at 0.70 kg/m MS flat is welded to the shutter at two places, equal distance from each other from top and bottom of the shutter. 18 gauge cold rolled sheet of superior quality is laid as panel in the shutter frames and welded intact. Stiffeners with 18x5mm at 0.70 kg/m MS flat of suitable length welded diagonally to all four corners of each openable shutter to hold the CR sheet in position firmly. MS square bars of 12mm size is welded to the inner face of the window at equal intervals not exceeding 100mm edge to edge between them. All members are painted with one coat of anticorrosive red oxide primer as directed by the departmental officers. All sections used should confirm to IS 7542 / 1990. The rate includes cost of all materials, labour charges, transportation to taxes and other incidental charges etc. complete.</p>				
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a	102 M ² (One hundred and two square metres)	Three leaves			1 M ² (One square metre)	
18	17 M ² (Seventeen square metres)	Supplying and fixing in position PVC door with PVC frame of size 0.75mx2.10m made from M.S. box section of size 19mmx19mmx19 gauge covered in all sides with moulded PVC. Sheet of 5mm thick and restricting the overall size of 50mmx50mm to form styles and rails. The panel shall be 5mm thick PVC. rigid steel inserted into the frame and sealed to the styles and rails and 5mmx2.5mm PVC.beading shall be provided in all sides including cost of supplying and fixing the following aluminium anodised furniture fittings and etc. complete. The size of outer frame is 48x40mm.3Nos. 125mm butt hinges, 1 No.150mm tower bolt of 12mm dia, 1 No.200mmx16mm aldrop, 2 Nos. 100mm 'D' type handles a complete assembled condition.			1 M ² (One square metre)	
19	15.50 M ² (Fifteen point five zero square metres)	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.			1 M ² (One square metre)	

20	765 M ² (Seven hundred and sixty five square metres)	Supplying and fixing of bare Galvalume sheet (aluminium zinc alloy coated sheet) with yield strength 550Mpa and 0.47mm thickness including all fittings as directed by the departmental officers. The rate is including cost of materials, labour charges for fixing conveyance, loading and unloading and all taxes etc., complete complying with standard specification. (The Bare Galvalume sheet could be got approved by the Executive Engineer before use on work)			1 M ² (One square metre)	
21	155 RM (One hundred and fifty five running metre)	Supply and fabricating and fixing in position 50mm dia GI pipe 'B' class including cutting the pipe to the required length etc. complete complying with standard specification and as departmental officer.			1 RM (One running metre)	
22	274 M ² (Two hundred and seventy four square metres)	Supplying and fabrication and fixing GI chain link fencing etc.complete complying with standard specification and as departmental officer.			1 M ² (One square metre)	
23	310 RM (Three hundred and ten running metre)	Supplying and Fixing in position of barbed wire fencing using 10 gauge 2 ply 4 pronged barbed wire etc.complete complying with standard specification and as departmental officer.			1 RM (One running metre)	

24	10 Nos (Ten numbers)	Supplying and fixing in position of Indian make white glazed earthen ware lipped mouth flat back Urinal of best approved quality with 32mm dia bell mouthed PVC connection,15mm dia G.M wheel valve,fixing the Urinal to the wall in position with necessary T.W. plugs,clamps,screws shellac etc.,including dismantling masonry if necessary and redoing the same to original condition,fixing the 15mm GI pipe connection and wheel valve, painting the pipe with two coats and checked without any leakage etc., complete complying with standard specification and as directed by the departmental officers.(The urinal should be got approved by the departmental officers before use on work)			1 No. (Each)	
25	10 Nos (Ten numbers)	Supplying and fixing in position best quality of approved make white glazed earthenware wash hand basin 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 as directed by the Departmental Officers complying with standard specification.(The wash hand basin and specials should be got approved by the Departmental Officers before use on work)(TNBP No.102)			1 No. (Each)	

26	10.80 M ² (Ten point eight zero square metres)	Supplying and fixing of fine Cuddapah slab of 20 / 30mm Thick for Cup - board arrangements in brick wall including levelling to correct alignment etc complete complying with standard specification and as directed by departmental officers			1 M ² (One square metre)	
27	7 Nos (Seven numbers)	Supplying and fixing in position White 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.The European Water Closet and flushing tank should be got approved by the Departmental Officers before use on work.			1 No. (Each)	

28	20 Nos (Twenty 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 brocken 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 Water Closet should be got approved by the Departmental Officers before use on work) The rate is inclusive of cost of 110mm dia PVC. Pipe 60cm long, all materials and labour charges. White			1 No. (Each)	
29	218 M ³ (Two hundred and eighteen cubic metres)	Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam 250mm thick specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with paver sin Sub Base/Base course on well prepared surface and compacting with vibratory roller to acheive the desired density including cost of material, labourcharges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev-5			1 M ³ (One cubic metre)	

30	3405 M ² (Three thousand four hundred and five square metres)	Providing and laying Prime Coat over WBM/WMM surface using 7Kg of Emulsion Bitumen(SS1) per 10 sqm for preparatory to another bituminous construction over it, including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 502 of MORTH Rev-5			1 M ² (One square metre)	
31	3405 M ² (Three thousand four hundred and five square metres)	Providing and laying Tack Coat over WBM/WMM surface (treated with primer) using 2.50K of Bitumen Emulsion (RS1) per 10sqm for preparatory to another bituminous construction over it including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 503 of MORTH Rev-5			1 M ² (One square metre)	

32	108 M ³ (One hundred and eight cubic metres)	Providing and laying Bituminous Concrete to 30mm thick using 0.13cum of 19.00-9.50mm ,0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30kgs of VG30 / VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity conveying the mix by tipper trucks to paver site ,spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc. ,including labour for attending to paver to site etc .,including hire charges and fuel charges for 20-30t CMP with bitumen boiler ,tipper trucks, Paver Finisher r/ 9mpaver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc. complete as per specification using CMP as per clause 507 of MORTH Rev-5			1 M ³ (One cubic metre)	
33	741 M ² (Seven hundred and forty one square metres)	Painting new iron work with two coats of synthetic enamel paint of approved quality and variety over existing priming coat as directed by the Departmental Officers complete complying with standard specification.The make and colour of paint to be used shall be got approved by the Departmental Officers before use on work.			1 M ² (One square metre)	

34	8265 M ² (Eight thousand two hundred and sixty 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 and as directed by the departmental officers			1 M ² (One square metre)	
35	20670 M ² (Twenty thousand six hundred and seventy 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)	
36	13710 M ² (Thirteen thousand seven hundred and ten square metres)	Painting the exterior wall surface two coats of 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., 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)	

37	13.50 M ² (Thirteen point five zero square metres)	Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lockable action, security protective hinges, strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The window should be got approved from the Executive Engineer before use on work			1 M ² (One square metre)	
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38	4320 Kg (Four thousand three hundred and twenty 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)	
39	300 RM (Three hundred running metre)	Providing and fixing P.V.C. Rainwater Downfall pipes of 110mm diameter with necessary shoes, bends and other speicals, clamps, screws, nails, teakwood plugs etc., complete including cost of all materials. The rate is to include cost of removable cast iron Gratings of appropriate size. The size of teakwood plugs to be used is 150mm * 25mm in front and 200mm * 75mm in rear and all other sides with a depth of 100mm. The pipe is to be fixed by means of "U" clamps at the cnetre of the pipe screwed to the plugs. The special type of 'U' clamps at the centre of the pipe to be fixed in addition to these for more than three metres pipe length, complete complying with standard specification.			1 RM (One running metre)	

40	15 Nos (Fifteen numbers)	Construction of Inspection chamber in Brick work using Fly ash Brick of size 230x110x70mm to a thickness of 0.23m in cm 1:5 over the CC 1:5:10 using 40mm kg HBSJ walls to a thickness of 0.23m and 1.12mx1.12m size and sand filling to a size of 1.12mx1.12m to a depth of 0.12m with necessary earthwork excavation of size 1.12mx1.12mx1.20m(Depth) including plastering the wall to a height of 0.78m inside the chamber and 0.55m on outer wall and top surface of the chamber and forming channel in the bottom of chamber and forming channel in the bottom of chamber and forming in CC 1:3:6 using brick jelly of 20mm size also including necessary RCC cover slab with necessary steel Reinforcement etc.,complete.			1 No. (Each)	
41	7 Nos (Seven numbers)	Supply& fixing SS health faucet of best quality with control valve as directed by the departmental officer.			1 No. (Each)	
42	30 Nos (Thirty 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)			1 No. (Each)	

43	1690 M ² (One thousand six hundred and ninety square metres)	Painting old wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all floors including the cost of primer etc., complete complying with standard specification. (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)	
44	1630 M ² (One thousand six hundred and thirty square metres)	Painting old iron work with two Coat of synthetic enamel paint of approved quality as directed by the Departmental Officers complete complying with standard specification. The make and colour should be got approved by the Departmental Officers before use on work.			1 M ² (One square metre)	
				TOTAL		
				GST 12 %		
				GRAND TOTAL		
	44 Items (Forty four items only)					