

Schedule - A						
NAME OF WORK :		Special repairs and ordinary repairs to various buildings in Government College of Education at Orathanadu in Thanjavur District..				
EMD: Rs. 38,500/-				Date: 05.04.2022		
Sl. No	Qty	Description of Work	TN BP NO.& NBC	Rate in Words	Unit	Amount
		CIVIL WORK				
1	330 M ² (Three hundred and thirty 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	28.80 M ³ (Twenty eight point eight zero 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)	

3	33.50 M ³ (Thirty three point five zero 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)	
4	33.50 M ³ (Thirty three point five zero 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)	
5	21 M ³ (Twenty one cubic metres)	Plain Cement concrete 1:2:4 (One cement two m-sand and four aggregate) using machine crushed 20mm gauge hard broken granite stone jelly excluding cenetering, shuttering and, but including laying, curing and finishing etc., complete complying with standard specification and as directed by the departmental officers.			1 M ³ (One cubic metre)	

6	16.10 M ³ (Sixteen point one zero cubic metres)	Brick work in cement mortar 1:5 (one cement and five 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).			1 M ³ (One cubic metre)	
7	6.22 qtl (Six point two two 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)	
8	100 M ² (One hundred 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)	

9	41.60 RM (Forty one point six zero running metre)	Fabricating supplying and fixing in position CRCA pressed steel box section 18 gauge or 1.25mm thick for door frames of section size 105mmx60mmx1.25mm thick with necessary rebate of size 35x15mm for housing door shutters conforming to IS specification. Frames shall be fabricated to the specified door size with joints properly welded and grinded. Stiffeners with 25x3mm MS flat shall be provided around the frame at 60cm intervals. The cost shall also include for providing 3 Nos. of MS clamps with 25x3 flats each on either sides of door frame, providing bottom tie, with 10mm dia MS rod, providing necessary holes for receiving tower bolts 2 Nos. with stiffeners on inner side, providing the required number of I.O hinges of size 125x30mm for shutters properly welded to the frames, finishing the door with one coat of good quality red oxide primer with cement concrete 1:2:4 (One cement, two M sand and four aggregate) using 20mm gauge hard broken granite stone jelly packed inside to the frame including cost of all materials, fabrication and conveyance to the site and fixing in position with necessary scaffolding etc., complete complying with standard specification and as directed by the departmental officer.			1 RM (One running metre)	
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10	16.80 M ² (Sixteen point eight 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)	
11	13.50 M ² (Thirteen point five zero 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)	

12	<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	24.80 M ² (Twenty four point eight zero square metres)	Three leaves			1 M ² (One square metre)	
13	330 M ² (Three hundred and thirty square metres)	Finishing the top of machine pressed tiles in roof area with Flux Coating using with Poly Carbonate Chemical with two coats .the cost including necessary labour charges for cleaning and scrapping the old tiles surface and rack out the dead mortar from the joints of the tiles and refilling with polycarbonate paste in full depth etc comp. complying with std specifications			1 M ² (One square metre)	
14	2342 M ² (Two thousand three hundred and forty 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)	

15	30 M ² (Thirty 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)	
16	2660 M ² (Two thousand six hundred and sixty 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)	

17	8669 M ² (Eight thousand six hundred and sixty nine 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)	
18	6840 M ² (Six thousand eight hundred and forty square metres)	Painting two coats of newly plastered wall surface with ready mixed Exterior plastic emulsion paint of first quality and of approved colour over a priming coat including preparing the surface, 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)	
19	970 M ² (Nine hundred and seventy 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)	

20	400 M ² (Four hundred 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)	
21	150 RM (One hundred and fifty 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)	

22	3 Nos (Three 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 Departmentla Officers. The rate includes cost of 100mm dia PVC. Pipe 60cm long including cost of 3Kg. 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. White			1 No. (Each)	
23	3 Nos (Three numbers)	Supply& fixing SS health faucet of best quality with control valve as directed by the departmental officer.			1 No. (Each)	

24	5 Nos (Five 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)	
25	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)	

26	5 Nos (Five 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)	
27	6 Nos (Six numbers)	Supply and fixing of stored pressure ABC (Mono Ammonium Phospate) powder type fire extinguisher of 6 kg capacity as per IS:15683with pressure gauge, discharge hose & control nozzle, wall mounting bracket, safety clip etc. including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary etc. complete as per standard specification and as directed by the Departmental Officers. Make: Excellent/Safety First/equivalent.			1 No. (Each)	

28	4 Nos (Four numbers)	Supply and fixing of carbon-di-oxide gas type 2 kg. capacity Fire extinguisher as per new IS:15683, complete with control valve, discharge hose with horn, wall mounting bracket, safety clip etc. including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary etc. complete as per standard specification and as directed by the Departmental Officers. Make: Excellent/Safety First/equivalent.			1 No. (Each)	
				TOTAL		
				GST 12 %		
				GRAND TOTAL		
	28 Items (Twenty Eight items only)					