

**NAME OF WORK:-Special maintenance and Repairs in Dr.Ambedkar Government Arts College, Vyasarpadi, Chennai 39**

**SCHEDULE A**

EMD: Rs. 51500/-					Date: 05.04.2022		
Sl. No	Qty	Description of Work	TN BP NO.	NBC NO.	Rate in figure and Words	Unit	Amount
1	170 M <sup>2</sup> (One hundred and seventy square metres)	Dismantling damaged Doors & windows including removal of frames, hinges and fastenings				1 M <sup>2</sup> (One square metre)	
2	322M <sup>3</sup> (Three hundred and twenty two 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.	23 & 24	V, VI (S2)		1 M <sup>3</sup> (One cubic metre)	
3	26 M <sup>3</sup> (Twenty six cubic metres)	Supplying and Filling in foundation and basement with <b>M sand</b> 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 <sup>3</sup> (One cubic metre)	

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Contractor

Chief Engineer

4	26 M <sup>3</sup> (Twenty six 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 <sup>3</sup> (One cubic metre)	
5	71 M <sup>2</sup> (Seventy one 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 <sup>2</sup> (One square metre)	
6		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	141 M <sup>2</sup> (One hundred and forty one square metres)	For Plain surfaces such as RCC slab, Beam, Bed Block, waist slab, landing slab, lintel etc.,				1 M <sup>2</sup> (One square metre)	
b	841 M <sup>2</sup> (Eight hundred and forty one square metres)	For Vertical surfaces such as sunshade boxing, vertical drops, facia for sunshade, canopy facia and other vertical walls etc.,				1 M <sup>2</sup> (One square metre)	
7		Providing and lying in position , standardised Concrete Mix M25 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 M. sand , but excluding cost of reinforcement grill and fabricating charges centering and shuttering and also including laying vibrating with mechanical vibrators finishing curing ect., 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)	28	VI.8.2 .8.3. VI (S5A) 4.2.1. 3			

a	125.10 M <sup>3</sup> (One hundred and twenty five point one zero cubic metres)	For foundation and basement				1 M <sup>3</sup> (One cubic metre)	
8	115.50 Qtl (One hundred and fifteen point five zero 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)	
9	15 Nos (Fifteen numbers)	Supplying and fixing in position of <b>SFRC Man hole cover</b> with CI frames of size 600x600mm (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 SFRC Man hole cover should be got approved by the departmental officers before use on work).	Spl			1 No (Each)	
10	4 Nos (Four numbers)	Supply and fixig of stainless steel sink of approved quality and size as directed by the departmental officers.				1 No (Each)	

11	1770 M <sup>2</sup> (One thousand seven hundred and seventy square metres)	Painting two coats of 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 <sup>2</sup> (One square metre)	
12	6721 M <sup>2</sup> (Six thousand seven hundred and twenty one square metres)	Painting two coats of ready mixed interior 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 <sup>2</sup> (One square metre)	
13	3040 M <sup>2</sup> (Three thousand forty square metres)	<b>White washing two coats</b> 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 <sup>2</sup> (One square metre)	
14	462 M <sup>2</sup> (Four hundred and sixty two square metres)	Painting <b>old wood work</b> two coats in the floors with best synthetic enamel paint of approved quality, colour of and brand to be approved by Executive Engineer before use on work including ordinary scrapping, sand papering and preparation of surface including cost of brushes, High scaffolding charges neat finishing neatly etc., complying with standard specification and as directed by the quality and brand including preparation of surface etc.,				1 M <sup>2</sup> (One square metre)	

15	1485 M <sup>2</sup> (One thousand four hundred and eighty five square metres)	Painting the <b>old iron work</b> with such as steel doors, windows, ventilators, window bars, balustrades etc., 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).				1 M <sup>2</sup> (One square metre)	
16	735 M <sup>2</sup> (Seven hundred and thirty five square metres)	Paving the floor with New <b>Double Charged vitrified tiles</b> (like Marbonite or equivalent) of approved quality and colour of size <b>600 x 600x 8 mm thickness</b> in all floors over a base layer of cement mortar 1:3 (one cement and three sand) 20mm thick and pointing with white cement using 0.30kg/m <sup>2</sup> 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 tiles should be got approved by the Departmental officers before use on works).	39F			1 M <sup>2</sup> (One square metre)	

17	46.80 M <sup>2</sup> (Forty six point eight 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 <sup>2</sup> (One square metre)	
18	18.50 M <sup>2</sup> (Eighteen point five zero square metres)	Supplying and fixing with new cupboard shutters with country wood scantling and any other similar joinery works including cost of country wood scantling of required length and labour charges for wrought and put up in position and fixing the cupboard shutters etc., complete complying with standard specification and as directed by the departmental officers				1 M <sup>2</sup> (One square metre)	
19	40 M <sup>2</sup> (Forty square metres)	Easing the existing hanging doors & windows including renewing from its position and refixing the same after attending the petty repair works including labour charges for preparing and fixing with necessary furniture fittings including cost of such furniture fittings and fixing it in original position etc.,				1 M <sup>2</sup> (One square metre)	

20	1170 kg (One thousand one hundred and seventy 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)	
21	450 M <sup>2</sup> (Four hundred and fifty square metres)	<b>Special ceiling plastering</b> 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.	56 & 57	V (S4) 3		1 M <sup>2</sup> (One square metre)	
22	6 Nos (Six numbers)	Supplying and fixing in position best quality of approved make white glazed earthenware wash hand basin (without 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)	



23	35 M <sup>2</sup> (Thirty five square metres)	Supplying and fixing of bare <b>Galvalume sheet (aluminium zinc alloy coated sheet) with yield strength 550Mpa and 0.47mm thickness</b> 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 <sup>2</sup> (One square metre)	
24	25 RM (Twenty five running metre)	Supplying and fabricating and fixing in position <b>50mm dia GI pipe 'B' class for holding the AC sheet roof</b> including cutting the pipe to the required length and shape grinding the edge smooth welding wherever necessary as directed by the departmental officers including cost of one coat red oxide primer etc., complete complying with standard specifications and as directed by the departmental officers . The rate includes cost of GI pipe, taxes and labour charges for fixing in position.	Spl			1 RM (One running metre)	
25	3 M <sup>3</sup> (Three cubic metres)	Brick work in cement mortar 1:5 (one cement and five M sand) using Fly ash bricks of size 230x110x70mm 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) Ground floor.				1 M <sup>3</sup> (One cubic metre)	
26	14 M <sup>2</sup> (Fourteen square metres)	<b>Plastering with cement mortar 1:5</b> (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 <sup>2</sup> (One square metre)	

27	19 M <sup>2</sup> (Nineteen square metres)	Dadoing the walls with Pre polished Granite tiles of 300 X 200mm X6mm of approved quality set in cement mortar 1:2 mix (one cement and two sand) 10mm thick and pointing with same coloured cement using 0.40 kg/m <sup>2</sup> including finishing the joints neatly finish in the surface 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 <sup>2</sup> (One square metre)	
28	1 No (One number)	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 around 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)	
29	20 Nos (Twenty 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)	

30		Supplying, laying and joining the following size of PVC pipes 10 kg / Sqcm of approved quality and best verity conforming to ISS and with ISI Mark laid properly to alignment including cutting, threading and fixing PVC specials but excluding the cost of such specials and fixing to the wall with necessary TW 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, concrete and plastering wherever necessary with necessary scaffolding charges etc., complete.					
a	20 RM (Twenty running metre)	20mm UPVC pipe				1 RM (One running metre)	
b	20 RM (Twenty running metre)	25mm UPVC pipe				1 RM (One running metre)	
31	2 M <sup>2</sup> (Two square metres)	Supply and fixing Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS 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 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter.				1 M <sup>2</sup> (One square metre)	

32	8 M <sup>2</sup> (Eight square metres)	Supplying and fixing Medium density fibre board of exterior grade 35mm thick double leaves door shutter conforming to I.S. 12406 / 1989 with external teak wood lipping of size 35x12mm on all edges with necessary adhesive and C.P. Screws, including fixing for aldrop, tower bolt,hinges and lock strike plates, putty, fevical ,painting the teak wood lipping etc., and including the cost of aluminium hinges 125x30mm size - 6Nos. aluminium aldrop of size - 250x16 mm - 1No. Aluminium tower bolt of size 250x12mm - 2Nos. tower bolt of size 200x12mm - 1No, D type aluminium handle of size 200mm-2Nos., aluminium door stopper with nylon bush - 2Nos. shall be provided.The cost is inclusive of rebate cutting for the shutter. All aluminium furniture fittings are to be anodised with matt finish under electrically controlled condition in accordance with ISI specification 1868 / 1962 for anodic film thickness of not less than 15 microns. The rate is inclusive of cost of fevical fixing charges, transportation, loading, unloading all other incidental charges and handling charges etc., complete complying with standard specification.				1 M <sup>2</sup> (One square metre)	
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33	16.50 RM (Sixteen point five 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 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.	Spl				1 RM (One running metre)	
34	3 M <sup>2</sup> (Three square metres)	Paving the floor with fine Polished Cuddapah slab of 50 mm thick of size 600 X 600 X 50mm laid over CM 1.3, 20mm thick over the existing bed of CC 1:5:10					1 M <sup>2</sup> (One square metre)	

35	30 M <sup>2</sup> (Thirty square metres)	Supplying, fabricating and fixing in position of <b>Aluminium anodised powder coating Partition - 1/2 Glazed and 1/2 rd PLB.</b> Aluminium box section of size 63.50 x 38.10 x 1.28mm extruded box section at bottom vertical and horizontal members both vertically and horizontally. The vertical member are spaced at 90cm C/C and horizontal members are spaced at 1.2m, 2.1m and 2.4m height. The partition panels should be covered with 12mm thick MDF exterior grade both side prelaminated board as per the instructions of the field officers including necessary accessories like rubber beadings, aluminum clips of size 17.15 x 17.27 x 0.40mm, ' L' angle, screws, etc., and also including the labour charges for fabrication which includes necessary scaffolding, chipping, dismantling, making holes in RCC or masonry works with power drill and redoing the same to the original condition after fixing in position etc., complete complying with standard specification and as directed by the departmetnal officers. The aluminium surfaces is to be anodised with matt finish under electrically controlled condition in accordance with ISI 1868 / 1962 specification for an average anodic film thickness of not less than 15 (Fifteen) microns for all sections. (All materials should be got approved by the Executive Engineer before fixing in position)	Spl				
36	100 M <sup>3</sup> (One hundred cubic metres)	Collecting the scattered debris from the campus and conveying away the same to outside by lorry to a lead of 3km including loading and unloading charges and dumping in low places and leveling etc.,					1 M <sup>3</sup> (One cubic metre)
						<b>TOTAL</b>	
				12%		<b>GST</b>	
						<b>GRAND TOTAL</b>	
		<b>36 items (Thirty six items)</b>					