

**APPENDIX A- CIVIL WORK**

**Name of Work : Construction of first and roof floor to Central medical store in VPSV Ayurveda college, Kottakkal**  
**TENDER SHEDULE**

Item no	Quantity	Description of work	Unit	Quoted rate		Amount		
				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5	6	7		
1	6m <sup>3</sup>	Demolishing laterite masonry work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	1m <sup>3</sup>					
2	1no	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq.metres and below.	each					
3	1m <sup>3</sup>	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	1m <sup>3</sup>					
4	19m <sup>2</sup>	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of: Asbestos sheet	1m <sup>2</sup>					
5	30m	Dismantling GI roofing,,purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : Of sectional area below 40 square centimetres	metre					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
6	35m <sup>3</sup>	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	1m <sup>3</sup>					
7	14m <sup>3</sup>	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size) columns in first and second floor.	1m <sup>3</sup>					
8	520m <sup>2</sup>	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Suspended floors, roofs, landings, balconies and access platform , Lintels, beams, plinth beams, girders, bressumers and cantilevers,Columns, Pillars, Piers, Abutments, Posts and Struts, Stairs, (excluding landings) except spiral-staircases	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
9	6400kg	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500 D or more.	1kg					
10	30m <sup>3</sup>	Hard Laterite neatly dressed stones of size 35x20x20 cm in cement mortar 1:6 (one cement and six sand) including cost and conveyance of all materials to site and conveyance of all materials to site and labour charges scaffolding charges etc. complete for first floor super structure wall	1m <sup>3</sup>					
11	39m <sup>3</sup>	Hard Laterite neatly dressed stones of size 35x20x20 cm in cement mortar 1:6 (one cement and six sand) including cost and conveyance of all materials to site and conveyance of all materials to site and labour charges scaffolding charges etc. complete for second floor super structure wall	1m <sup>3</sup>					
12	180m <sup>2</sup>	9 mm cement plaster of mix : under side of slab 1:3 (1 cement : 3 fine sand) including cost of all materials and labour charges etc complete.	1m <sup>2</sup>					
13	805m <sup>2</sup>	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand) including cost of all materials and labour charges etc complete.	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
14	280kg	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	1kg					
15	65kg	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item)With float glass panes of 4.0 mm thickness	1kg					
16	800kg	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	1kg					
17	5m <sup>2</sup>	Supplying and fixing rolling shutters door of approved. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete,	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
18	80m <sup>2</sup>	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work over a priming coat	1m <sup>2</sup>					
19	170m <sup>2</sup>	Providing and laying rectified Ceramic floor tiles of size 600x600 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	1m <sup>2</sup>					
20	120m <sup>2</sup>	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	1kg					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
21	1600kg	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses 50x50x3mm rafter,50x25x3mm purlin,50x25x3mm or nearest size,50x25x3mm purlins,200x200x10mm base plate etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes	1kg					
22	140m <sup>2</sup>	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work	1m <sup>2</sup>					
23	300m <sup>2</sup>	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealent where required etc. but excluding the cost of purlins, rafters and trusses. 0.91 mm thick, the profile detail width 1044/920 mm,cover width 1000/875 mm.	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
24	60m	Supplying and fixing best quality PVC square type gutter 200 mm or nearest size with necessary all fittings	metre					
25	10nos	Supplying and fixing 200mm PVC gutter drop(center) including cost and conveyance of all materials and labour charge etc	each					
26	4nos	Supplying and fixing 200mm PVC gutter drop(elbow) including cost and conveyance of all materials and labour charge etc	each					
27	100m	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, 110 mm diameter	metre					
28	12nos	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single tee without door 110x110x110 mm	each					
29	12nos	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for nplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.5° 12.42.5.2 110 mm bend	each					
30	690m2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
31	660m2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats	1m <sup>2</sup>					
32	370m2	Finishing walls with Smooth exterior paint (Apex ultima) with Silicone additives of required shade:New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	1m <sup>2</sup>					
33	250m2	Finishing walls with Smooth exterior paint (apex ultima) of required shade: Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	1m <sup>2</sup>					
						<b>TOTAL</b>		

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APPENDIX. B- ELECTRICAL WORK

Name of work : Elctrification of Central Store second Floor in V.P.S.V Ayurveda college Kottakkal

TENDER SCHEDULE

Item No	Quantity	Description of Work	Unit	Quoted Rate		Amount
				In figures Rs. Ps.	In words	
1	26 Nos	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core concealed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required ,except combined plug.	Point			
2	4 Nos	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	Each			
3		Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC conduit as required.				
3.a	150 Metre	3 x 1.5 sq. mm	Metre			

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3.b	50 Metre	3 x 2.5 sq. mm	Metre			
3.c	35 Metre	4 x 6 sq. mm	Metre			
3.d	35 Metre	2 x 4 sq. mm	Metre			
4		Supplying and fixing of following sizes of medium class PVC ivory coloured conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
4.a	150 Metre	20 mm	Metre			
4.b	50 Metre	25 mm	Metre			
5	3 Nos	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each			
6	4 Nos	Supplying and fixing brass batten/ angle holder including aluminium light reflector and connection etc. as required.	Each			
7	2 Nos	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each			

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8	1 No	Supplying and fixing 4 way (8+ 12), Double door , horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required.	Each			
9	1 No	Supplying and fixing of 4 way (8 + 12), Double door surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required.	Each			
10	12 Nos	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve Single pole , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each			
11		Supplying and fixing following rating , four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

11.a	1 No	40 amps				
11.b	1 No	63 amps				
12	2 Nos	Supplying and fixing of Triple pole 5 A to 32 A rating, 240/415 V, 10 kA, “C” curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each			
13		Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
13.a	1 No	40 amps	Each			
13.b	1 No	63 amps	Each			
14	3 Nos	Supply an fixing of 1200 mm sweep electric energy efficient star rating branded fan , with double ball bearing, shackles, down rod, canopies, blades suitable for operation on 240 V, 50 Hz Single phase AC Supply.	Each			
15	4 Nos	Supply and fixing of 9-15 watt LED bulbs	Each			
16	13 Nos	Supply and fixing of 16-18 watt LED tubes	Each			
17	6 Nos	Supplying and fixing of Exhaust fan of following sizes compleate with all fixing materials, interconnections etc. 200mm sweep 230V, shutter type medium duty	Each			

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**LIST OF APPROVED MATERIALS**

<b>SL NO</b>	<b>DESCRIPTION</b>	<b>MAKE</b>
1	FRLS PVC insulated single core stranded copper wire/three core flexible cable	finolex/ RR kabel / V Guard/ BCH
2	Modular type switch/ socket/electronic stepped fan regulator/blanking plate/GI box/metal base and cover plate	MK-wraparound/myrius/ siemens-delta
3	MCCB/RCCB/MCB/MCB Blanking plate	Legrand/Siemens/ ABB
4	Double door horizontal type/vertical type TPN/MCCB / 4 way metal enclosure DB	
5	SPN industrial type socket outlet with metal enclosed plug top	
6	LED tube/ LED fittings	Philips/ Bajaj/ Crompton greaves
7	PVC conduit/accessories, medium	Precision/Konseal/ Balco/ Al Plast
8	1.1 Kv Al XLPE cable	Ralison/Gloster/ Havells
9	Ceiling fan/ Exhaust fan	Bajaj/ Kulirma / Usha/ Havells/Crompton greaves

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Note:

1 In case any obvious mistake in the schedule of the items which can be easily identified, the contractor shall not take advantage of these errors and department reserves the right to correct these errors whenever they are noticed after formally bringing it to the notice of the contractor during the period of contract.