

**APPENDIX A-CIVIL WORK****Name of Work :Construction of first,second and roof floor for LH South block 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	5m3	Demolishing laterite 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.	1m3					
2	14m2	Dismantling sheet roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of	1m <sup>2</sup>					
3	17m3	Reinforced cement concrete work in first,second and roof floor 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).	1m <sup>2</sup>					
4	89m3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases 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).in first,second and roof floor etc.	1m3					

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				In figure		In words	Rs.	Ps.
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1	2	3	4	5	6	7		
5	1550m <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 in first,second and roof floor etc.	1m <sup>2</sup>					
6	13000kg	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.in first,second and roof floor etc.	1kg					
7	54m <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 etc. complete for First floor super structure wall	1m <sup>3</sup>					
8	66m <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 etc. complete for Second floor,roof floor super structure wall.	1m <sup>3</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5	6	7		
9	42nos	Supplying and fixing ferro cement shelf of size 1.00x0.25x1.35mm with three compartment, including cost and conveyance of all materials and labour charge etc	each					
10	2055m <sup>2</sup>	12 mm cement plaster: 1:4 (1 cement : 4 fine sand)	1m <sup>2</sup>					
11	420m <sup>2</sup>	9 mm cement plaster of mix : under side of slab 1:3 (1 cement : 3 fine sand)	1m <sup>2</sup>					
12	1230kg	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.	1kg					
13	90m <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>					
14	460m <sup>2</sup>	P/L rectified Ceramic floor tiles 600x600 mm laid on 20mm thick cement mortar (1:4).	1m <sup>2</sup>					
15	185m <sup>2</sup>	P/F 1st quality ceramic glazed wall tiles over 12 mm thick bed of cement Mortar (1:3).with necessary corner clips etc.	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5	6	7		
16	460kg	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)	1kg					
17	90m <sup>2</sup>	Providing and fixing glazing in aluminium, 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	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
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1	2	3	4	5	6	7		
18	30m <sup>2</sup>	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.	1m <sup>2</sup>					
19	22m <sup>2</sup>	Supplying and fixing PVC door frame and shutter (sintex) with SS 200mm aldrop tower bolt, handle both side and hinges screws etc, including cost and conveyance of all materials and labour charge etc	1m <sup>2</sup>					
20	170kg	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.
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1	2	3	4	5	6	7		
21	330m <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 sealant 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>					
22	1400kg	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses 50x50x3mm or nearest size, rafters 50x25x3mm or nearest size, 200x200x10mm base plate and 16mm dia bolt, 50x25x3mm or nearest size purlin 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					
23	80m	Supplying and fixing best quality PVC square type gutter 200 mm or nearest size with necessary all fittings	1m					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5	6	7		
24	12nos	Supplying and fixing 200mm x 75mm or nearest size PVC gutter drop(center) including cost and conveyance of all materials and labour charge etc	each					
25	4nos	Supplying and fixing 200mm PVC gutter drop(elbow) including cost and conveyance of all materials and labour charge etc	each					
26	130m	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 (6kg/cm2)	metre					
27	12nos	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia 45 degree Elbow	each					
28	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					
29	2475m2	White cement washing Two or more coats , including cost and conveyance of all materials and labour charge etc	1m <sup>2</sup>					
30	2475m2	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	1m <sup>2</sup>					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5		6		7
31	120m	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in charge 20mm dia 10 Kg/cm <sup>2</sup> -Internal work-Exposed on wall	metre					
32	100m	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in charge 25mm dia 10 Kg/cm <sup>2</sup> -Internal work-Exposed on wall	metre					
33	100m	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in charge 40mm dia 6 Kg/cm <sup>2</sup> -Internal work-Exposed on wall	metre					
34	60m	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in charge 50mm dia 6Kg/cm <sup>2</sup> -Internal work-Exposed on wall	metre					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5	6	7		
35	100m	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in charge 63mm dia 6Kgf/cm <sup>2</sup> -Internal work-Exposed on wall	metre					
36	60m	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in charge 110mm dia 6Kgf/cm <sup>2</sup> -Internal work-Exposed on wall	metre					
37	12nos	Providing and fixing PVC moulded fittings/accessories for rigid PVC pipes, including jointing with PVC solvent cement-110x110x110mm dia door- Tee.	each					
38	12nos	Providing and fixing PVC moulded fittings/accessories for rigid PVC pipes, including jointing with PVC solvent cement-110mm dia Vent cowl.	each					
39	14nos	Supplying and fixing 100mm or nearest size PVC floor trap with all fittings, including cost and conveyance of all materials and labour charge etc	each					
40	2nos	Supplying and fixing 40mm PVC ball valve best quality, including cost and conveyance of all materials and labour charge etc	each					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5	6	7		
41	6nos	Providing and fixing water closet squatting pan (Indian type W.C.pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm or nearest size available with integral type foot rests	each					
42	6nos	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter	each					
43	6nos	Providing and fixing brass stop cock of approved quality 15 mm nominal bore	each					
44	16nos	Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86 mm long, weighing not less than 88 gms	each					
45	4nos	White Vitreous China Wash basin size 550x400 mm or nearest size with a pair of 15 mm C.P. brass pillar taps	each					
46	6nos	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :Rectangular shape 453x357 mm	each					

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				In figure		In words	Rs.	Ps.
				Rs.	Ps.			
1	2	3	4	5	6	7		
47	12nos	Supplying and fixing CP Towel rod 60cm or nearest available length including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	each					
					<b>TOTAL</b>			

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**APPENDIX B-ELECTRICAL WORK****Name of work : Elctrification of Ladies Hostel South block 2nd & 3rd 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	70 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 cable in 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	42 Nos	Supplying and fixing suitable size GI box with modular plate and cover in front on recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	Each			

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3		Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing recessed steel/ PVC conduit as required.				
3.a	520 Metre	3 x 1.5 sq. mm	Metre			
3.b	425 Metre	3 x 2.5 sq. mm	Metre			
3.c	45 Metre	4 x 6 sq. mm	Metre			
3.d	45 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	280 Metre	20 mm	Metre			
4.b	130 Metre	25 mm	Metre			
5	17 Nos	Supplying and fixing brass batten/ angle holder including aluminium reflecting shield and connection etc. as required.	Each			
6	14 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			

7	14 Nos	Supplying and fixing 15/16 amps modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	Each			
8	14 Nos	Supplying and fixing 1 or 2 Module (75mm X 75mm) GI box alongwith modular base & cover plate for modular switches in recess etc as required.	Each			
9	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			
10	2 Nos	Supplying and fixing 6 way (8+ 18), Double door , horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required.	Each.			

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11	28 Nos	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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.			
12	2 Nos	Supplying and fixing 40 amps, 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.	Each			
13	2 Nos	Supplying and fixing 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			
14	2 Nos	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each.			

15	14 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			
16	20 Nos	Supply and fixing of 9-15 watt LED bulbs	Each			
17	24 Nos	Supply and fixing of 16-20 watt LED tubes	Each			
18	1 Nos	Supply and fixing of 36-50 watt LED Street light	Each			
19	4 Nos	Supplying and fixing of Exhaust fan of following sizes complete with all fixing materials, interconnections etc. 200mm sweep 230V, shutter type medium duty	Each			

**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	

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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

**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.