

**Name of work : ANNUAL REPAIRS AND MAINTENANCE OF (CIVIL & ELECTRICAL) WORKS,OF ESI HOSPITAL STAFF  
QUARTERS AT VARADHARAJAPURAM, COIMBATORE AND DISPENSARIES AND STAFF QUARTERS AT  
SOWRIPALAYAM, UPPILIPALAYAM AND VELLALORE FOR THE YEAR OF 1st APRIL 2019 TO 31st MARCH 2020.**

S. No	DSR 2016	Description	Unit	QTY	Rate	Amount
		<b>CIVIL</b>				
1	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	Cum	189.38	166.40	31512.00
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	Cum	0.75	917.75	688.31
3	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	41390.33	7.20	298010.38
4	2.33.2	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 60 cm girth upto and including 120 cm girth	Each	14.00	972.70	13617.80
5	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	4.23	5481.95	23210.58
	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	4.15	4478.15	18575.37
6	4.5.1	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete. 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	1.19	6772.45	8045.67
7	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	sqm	56.00	450.35	25219.60

8	5.1.3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	7.25	5772.65	41843.05
9	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for all heights Suspended floors, roofs, landings, balconies and access platform	Sqm	7.65	422.30	3228.48
	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	4.49	193.95	869.87
	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	24.00	521.75	12522.00
10	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	724.85	56.60	41026.51
11	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	0.92	4751.65	4371.52
12	6.4.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	67.44	5582.85	376485.07
13	6.12.2	Half brick masonry with common burnt clay F.P.S (non modular bricks) of class designation 7.5 in foundation and plinth Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	6.00	593.50	3561.00
14	6.13.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	15.51	684.20	10611.94
15	8.2.1.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 m Raj Nagar Plain white marble / Udaipur green marble / Zebra black marble Area of slab over 0.50 sqm	Sqm	10.80	1850.15	19981.62
16	8.3.1	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Marble work	Mtr	15.00	144.70	2170.50
17	9.5.1.1	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge Second class teak wood 35 mm thick shutters	Sqm	9.94	2548.15	25327.34

18	9.20.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	16.20	2372.80	38439.36
19	9.48.2	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 openings/ wooden frames with rawl plugs screws etc	Kg	57.00	112.45	6409.65
20	9.117.2	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin- charge Extruded section profile size 42x50 mm	RM	112.20	205.20	23023.44
21	9.120.1	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive.	Sqm	28.80	2768.10	79721.28
22	10.25.2	Steel work welded in built up sections / framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	280.00	85.95	24066.00

23	12.41.1	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, (i) Single socketed pipes. 75 mm diameter	RM	97.10	148.75	14443.63
24	12.41.2	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, (i) Single socketed pipes. 110 mm diameter	RM	120.00	236.35	28362.00
	12.42.1.2	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. Coupler 110 mm dia	Each	24.00	102.65	2463.60
	12.42.3.2	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 with door - 110x110x110 mm	Each	25.00	181.55	4538.75
	12.42.5.2	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. Bend 87.5° - 110 mm bend	Each	27.00	113.10	3053.70
	12.42.6.2	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. Shoe (Plain) 110 mm Shoe	Each	24.00	98.00	2352.00
25	12.43.1	Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 75 mm	Each	27.00	182.55	4928.85
	12.43.2	Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 110 mm	Each	32.00	181.40	5804.80
26	13.5.1	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement : 4 coarse sand)	Sqm	279.00	209.65	58492.35

27	14.1.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the With cement mortar 1:4 (1 cement : 4 fine sand)	Sqm	117.10	264.80	31008.08
28	14.6.1	Renewing glass panes, with wooden fillets wherever necessary : Float glass panes of thickness 4 mm	Sqm	4.51	852.60	3846.08
29	14.45.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade: Old work (one or more coats)	Sqm	633.93	33.35	21141.55
30	14.46	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	4899.38	10.80	52913.27
31	14.53.1	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One or more coats on old work	Sqm	2560.04	55.25	141441.94
32	14.54.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: One or more coats on old work	Sqm	2491.42	51.30	127810.05
33	14.66.1	Finishing walls with Acrylic Smooth exterior paint of required shade: Old work (Two or more coats applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	Sqm	1705.41	68.95	117588.16
34	14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding	Sqm	383.13	160.15	61358.27

35	14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank, including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba, all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	litre	28000.00	0.20	5600.00
36	14.77	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litre suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth.	metre	665.00	217.80	144837.00
37	15.3	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. (as per qty 5.1.3)	Cum	0.15	1454.55	218.18
38	15.7.4	Demolishing brick 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	Cum	2.00	842.75	1685.50
39	15.13.1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : Of area 3 sq. metres and below	Sqm	21.60	61.25	1323.00
40	15.23.2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles above 25 mm and up to 40 mm	Sqm	5.76	49.20	283.39
41	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead	Cum	102.00	120.55	12296.10

42	17.1.1	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 with integral type foot rests	Each	20.00	3494.20	69884.00
43	17.2.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 W.C. pan with ISI marked white solid plastic seat and lid	Each	15.00	3418.70	51280.50
44	17.7.1	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C. P. brass pillar taps	Each	1.00	2298.55	2298.55
45	17.10.2.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink without drain board 610x510 mm bowl depth 200 mm (without drain board)	Each	9.00	2476.60	22289.40
46	17.28.2.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Flexible pipe Flexible pipe - 32 mm dia	Each	41.00	73.25	3003.25
47	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	41.00	817.95	33535.95
48	17.69.1	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Each	10.00	82.55	825.50
49	17.70.2	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	Each	10.00	305.55	3055.50

50	18.7.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall20mm nominal outer dia pipes	Mtr	36.00	179.95	6478.20
	18.7.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall25 mm nominal outer dia pipes	Mtr	31.50	216.20	6810.30
	18.7.5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall40 mm nominal outer dia Pipes	Mtr	36.30	385.50	13993.65
	18.7.6	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall50 mm nominal outer dia Pipes	Mtr	37.80	548.55	20735.19
51	18.8.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.20 mm nominal outer dia pipes	Mtr	32.50	284.85	9257.63



52	18.9.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 20 mm nominal outer dia Pipes	Mtr	6.00	149.30	895.80
	18.9.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 25 mm nominal outer dia Pipes	Mtr	26.90	191.65	5155.39
	18.9.4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 32 mm nominal outer dia Pipes	Mtr	60.00	250.55	15033.00
	18.9.5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 40 mm nominal outer dia Pipes	Mtr	60.00	321.15	19269.00
	18.9.6	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 50 mm nominal outer dia Pipes	Mtr	54.70	484.25	26488.48
53	18.18.3	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 25 mm nominal bore	Each	19.00	331.95	6307.05
54	18.47.3	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required: 25 mm nominal bore	Each	15.00	424.30	6364.50

	18.47.4	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required: 32 mm nominal bore	Each	10.00	459.15	4591.50
	18.47.5	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required: 40 mm nominal bore	Each	9.00	517.20	4654.80
	18.47.6	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required: 50 mm nominal bore	Each	8.00	682.85	5462.80
	18.47.7	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required: 65 mm nominal bore	Each	7.00	915.15	6406.05
	18.47.8	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required: 80 mm nominal bore	Each	9.00	996.45	8968.05
55	18.48A	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Circular tank	per litre	4000.00	7.25	29000.00
56	18.56.1	Providing and fixing PTMT pillar cock of approved quality and colour (15 mm nominal bore, 107 mm long, weighing not less than 110 gms)	Each	32.00	168.90	5404.80
57	18.58.1.1	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	Each	27.00	32.75	884.25
58	19.4.1.1	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70kg as per standard design: 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5.00	1602.40	8012.00

59	19.7.2.1	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	11.00	18422.40	202646.40
60	19.8.2.1	Extra for depth for manholes Size 120x90 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	RM	10.00	6850.70	68507.00
61	1927	Supply of Brass way valve with C.I. wheel of approved quality (screwed end) 25mm dia:	Each	9.00	350.00	3150.00
62	1928	Supply of Brass way valve with C.I. wheel of approved quality (screwed end) 32 mm dia:	Each	4.00	410.00	1640.00
63	1929	Supply of Brass way valve with C.I. wheel of approved quality (screwed end) 40 mm dia:	Each	7.00	480.00	3360.00
64	1930	Supply of Brass way valve with C.I. wheel of approved quality (screwed end) 50 mm dia:	Each	5.00	620.00	3100.00
65	7257	Supply of CP Brass bib cock 15mm dia	Each	28.00	300.00	8400.00
66	7259	Supply of CP Brass long body bib cock 15mm dia	Each	27.00	400.00	10800.00
67	7260	Supply of CP Brass stop cock 15mm dia	Each	17.00	450.00	7650.00
68	7261	Supply of C.P. Brass angle valve 15 mm	Each	32.00	390.00	12480.00
<b>IDSr Amount</b>						<b>2698407.06</b>
<b>SSR 2018-19</b>						
69	SSR 120	gun metal Gate valve				
	120 (vi)	gun metal Gate valve 20mm	Each	2.00	325.00	650.00
	120 (v)	gun metal Gate valve 25mm	Each	1.00	550.00	550.00
	120 (iv)	gun metal Gate valve 32mm	Each	2.00	704.00	1408.00
	120 (iii)	gun metal Gate valve 40mm	Each	2.00	906.00	1812.00
	120 (ii)	gun metal Gate valve 50mm	Each	4.00	1150.00	4600.00
	120 (i)	gun metal Gate valve 65mm	Each	1.00	1410.00	1410.00
70	SSR 119	GI reducer				
	F-I	GI reducer 50x40mm dia	Each	3.00	87.90	263.70
	F-II	GI reducer 40x32mm dia	Each	2.00	65.90	131.80
	F-III	GI reducer 32x25mm dia	Each	2.00	49.10	98.20
	F-IV	GI reducer 25x20mm dia	Each	5.00	27.10	135.50
71	SSR 119	GI hex nipple				
	I-I	50 mm dia	Each	3.00	82.10	246.30
	I-II	40 mm dia	Each	2.00	65.90	131.80
	I-III	32 mm dia	Each	2.00	54.90	109.80
	I-IV	25 mm dia	Each	3.00	41.30	123.90
	I-V	20 mm dia	Each	27.00	32.80	885.60
	I-VI	15 mm dia	Each	2.00	21.90	43.80
72	SSR 143	Cast Iron Nahini / Floor Trap with stainless Steel Grating 100mm x 75mm	Each	4.00	258.60	1034.40
<b>Total</b>						<b>13634.80</b>
<b>MR Items</b>						

73	MR	Cleaning of septic tanks, pipe lines by pumping out/removal of the sludge and sewage with mechanically operated vacuum based septic tank cleaner including disposal of sludge far away from the ESIC campus by mechanical transportation using covered tanks without disturbing the public life etc. complete as per the direction of the Engineer-in-charge.	Load	50.00	1720.00	86000.00
<b>Total</b>						<b>86000.00</b>
<b>Labour Component Civil</b>						
74	CMW	Labour charges for day to day maintenance works at Hospital Staff Quarters and 3 dispensaries, staff quarters and attending to repairs round the clock with maintenance staff with all helpers, tools, as directed by the Engineer in charge.				
		Plumber (Skilled)	Month	12	25196.00	302352.00
		Carpenter (Skilled)	Month	12	25196.00	302352.00
		Helper (Unskilled)	Month	24	19144.00	459456.00
<b>Total</b>						<b>1064160.00</b>
<b>Total Civil Items</b>						<b>4551662.00</b>
<b>Electrical</b>						
1	1.10.2	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 surface / recessed 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. Group B	Point	61	783	47763.00
2	1.11	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.	Point	10	1057	10570.00
3	1.12	Wiring for light/ power plug with 2X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr	71	200	14200.00
4	1.13	Wiring for light/ power plug with 4X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 Nos 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr	28	308	8624.00
5	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Mtr	47	146	6789.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr	51	167	8550.40
	1.14.8	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Mtr	56	308	17248.00
	1.14.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Mtr	51	394	20094.00
6	1406	Supply of 6 pin 15/16 amps modular socket outlet, ISI marked	Each	8	95.5	764.00

7	1407	Supply of Modular bell push, ISI marked	Each	2	58.50	117.00	
8	1431	S.P. 5/6 amps, one way switch, piano type ISI marked	Each	61	10.00	610.00	
9	1434	3 pin 5/6 amps socket outlet, piano type ISI marked	Each	65	19.20	1248.00	
10	1433	S.P. 15/16 amps, one way switch, piano type ISI marked	Each	67	46.80	3135.60	
11	1435	6 pin 15/16 & 5/6 amps socket outlet, piano type ISI marked	Each	66	60.00	3960.00	
12	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	92	342	31464.00	
13	1740	Supply of 12 way SPN Double door MCB DB	Each	12	1287	15444.00	
14	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)					
		2.3.1	2 + 4 way/ 6 way , Double door	Each	2	1661	3322.00
		2.3.2	2 + 6 way/ 8 way , Double door	Each	5	1760	8800.00
		2.3.3	2 + 10 way/ 12 way , Double door	Each	5	2053	10265.00
		2.3.4	2 + 14 way / 16 way, Double door	Each	5	2453	12265.00
15	2.4	Supplying and fixing following way, 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. (But without MCB/RCCB/Isolator)					
		2.4.1	4 way (4 + 12), Double door	Each	1	3068	3068.00
16	2.13	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
		2.13.2	63 amps	Each	4	839	3356.00
17	2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	10	1232	12320.00	
18	5.2	Earthing with G.I. earth pipe 4.5 metre 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	3	5308	15924.00	
19	7.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required					
		7.1.1	Upto 35 sqmm	Mtr	27	323	8721.00
		7.1.2	Above 35 sqmm and Upto 95 sqmm	Mtr	26	338	8788.00

20	2904	Supply of 8 SWG copper wire (4.0 mm dia)	Kg	12	540	6480.00
21	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
	9.1.22	3½ X 50 sq. mm (35 mm)	Nos	7	329	2303.00
	9.1.23	3½ X 70 sq. mm (38mm)	Nos	6	368	2208.00
	9.1.24	3½ X 95 sq. mm (45 mm)	Nos	8	473	3784.00
	9.1.25	3½ X 120 sq. mm (45 mm)	Nos	11	489	5379.00
	9.1.26	3½ X 150 sq. mm (50 mm)	Nos	12	555	6660.00
	9.1.27	3½ X 185 sq. mm (57mm)	Nos	10	702	7020.00
	9.1.32	4 X 10 sq. mm (25 mm)	Nos	7	219	1533.00
22	1706	Supply of 6 amps. to 32 amps. ratings , SP MCB, "C" curve, 10 KA breaking capacity	Each	33	102	3366.00
23	1708	Supply of 6 amps. to 32 amps. ratings , DP MCB, "C" curve, 10 KA breaking capacity	Each	32	371	11872.00
24	1709	Supply of 6 amps. to 32 amps. ratings , TP MCB, "C" curve, 10 KA breaking capacity	Each	26	575	14950.00
25	1712	Supply of 40 amps., 2 pole isolator	Each	32	207	6624.00
26	1442	Supply of Brass batten/ angle holder	Each	45	38	1710.00
<b>Total</b>						<b>351299.00</b>
	<b>SD 2016</b>					
27	SD 88	Supply and fixing of single box type 4'40 W flu fitting complete with copper choke and condensor with TW round blocks on wall or ceiling with flu tube with PVC unsheathed Copper leads from terminals to the fitting.	Each	17	475.00	8075.00
28	SD 106	Supply and fixing of A.C. ceiling fan complete 1200mm ( 48") sweep with 300mm down rod (without regulator)	Each	23	1764.00	40572.00
29	SD-125	Supply and fixing of TNEB meter Board suitable for 32A Single Phase service connection with 32A Fuse unit (500V) 32A neutral link and earth link (1" x 1/8" Copper flat) on TW plank of size 375mm x 300mm x 19mm with supporting TW reepers of 1" thick an either side with painting with suitable bolt and nuts for fixing the TW plank on wall with earth connection and inter connection with 7/20 PVC insulated copper wire from EB meter to fuse unit	Each	1	658	658.00
30	SD -127	Supply and fixing of TNEB meter Board suitable for 32A Three Phase service connection with 3 Nos. 32A Fuse unit (500V) 32A neutral link and earth link (1" x 1/8" Copper flat) on TW plank of size 600mm x 450mm x 19mm with supporting TW reepers of 1" thick an either side with painting with suitable bolt and nuts for fixing the TW plank on wall with earth connection and inter connection with 7/20 PVC insulated copper wire from EB meter to fuse unit.	Each	1	1479	1479.00
31	SD - 198	Supply and laying of 2x10 Sqmm PVC armoured LT UG Cable in a trench to be excavated at a depth of 0.75 mtr putting 0.15 mtr layer of sand and covering the cable completely with bricks and sand and refiling the earth to make good	Mtr	20	277	5567.70

32	SD-200	Supply and laying of 2x25 Sqmm PVC armoured LT UG Cable in a trench to be excavated at a depth of 0.75 mtr putting 0.15 mtr layer of sand and covering the cable completely with bricks and sand and refiling the earth to make good	Mtr	4	301	1234.10
<b>al SD Amount</b>						<b>57585.80</b>
	<b>SSR 2018-19</b>					
33	<b>Part-I.8.a</b>	Insulation Tape roll	Each	35	13.05	456.75
		<b>PART "A"</b>				
34	24	Ceiling Rose	Each	20	13.15	263.00
	V	<b>PART "E"</b>				
35	1	service connection accessories L.T 1100v pvc aluminium armoured under ground cable with isi mark				
	p	4 core 6 sq.mm. PVC Armoured UG Cable	Metre	15.00	109.80	1647.00
	q	4 core 10 sq.mm. PVC Armoured UG Cable	Metre	60.00	120.30	7218.00
<b>l SSR Amount</b>						<b>9584.75</b>
	<b>MR</b>					
36	MR	Supply of LED Tube light fitting				
		23 watt	Each	12	1705.00	20460.00
37	MR	Supplying of 400mm sweep wall mount fan with push button switch	Each	3	3148.00	9444.00
38	MR	Supply of 2.5 MFD Fan condenser	Each	8	39.00	312.00
39	MR	Repairing of starter pannel including spares.	Each	3	7496.00	22488.00
40	MR	Removing,rewinding and refixing for the submersible Motor from the existing borewell upto 150 metres depth , for motor - upto 7.5 HP	Each	3	20592.00	61776.00
41	MR	Removing and refixing for suitable thrust bearing for submersible pumpset upto 7.5 HP for borewell	Each	3	2203.00	6609.00
42	MR	Removing and refixing for suitable shaft push set of four for submersible pumpset upto 7.5 HP for borewell	Each	3	1889.00	5667.00
<b>Total</b>						<b>126756.00</b>
<b>Labour Component Electrical</b>						
43	CMW	Labour charges for day to day maintenance works at Hospital, Staff Quarters and 3 dispensaries, staff quarters and attending to repairs round the clock with maintenance staff with all helpers, tools, as directed by the Engineer in charge.				
		Electrician Grade I (Skilled)	Month	12	25196.00	302352.00
		Electrician Grade II (Helper) Unskilled	Month	12	19144.00	229728.00
		<b>Total</b>				<b>532080.00</b>
		<b>Total Electrical Items</b>				<b>1085366.02</b>
		<b>Total Civil and Electrical Items</b>				<b>5637028.01</b>

JUNIOR ENGINEER (CIVIL)

JUNIOR ENGINEER (ELECTRICAL)

EXECUTIVE ENGINEER (CIVIL) R.O CHENNAI

## ABSTRACT OF SCHEDULE

Name of Work : Annual Repairs And Maintenance Of (Civil & Electrical) Works,Of Esi Hospital Staff Quarters At Varadharajapuram, Coimbatore And Dispensaries And Staff Quarters At Sowripalayam, Uppilipalayam And Vellalore For The Year Of 1st April 2019 To 31st March 2020.

Name of the Contractor :

Sl.No	Abstract of Schedule	Amount
01	Civil - DSR Item Total	3386231.02
02	Civil - SSR & MR Total	101270.98
03	Civil - Labour Total	1064160.00
04	Electrical - DSR Item Total	351299.00
05	Electrical - SSR & MR Total	201987.02
06	Electrical - Labour Total	532080.00
07	Civil and Electrical - Total	5637028.02
08	Labour Cess @ 1%	56370.28
	<b>Value put into Tender (rounded up)</b>	<b>5693398.00</b>

Minus \_\_\_\_\_ % (or) AT PAR the estimated cost (or) Plus \_\_\_\_\_ %

Quoted percentage in words \_\_\_\_\_ Only

**(Bidder is to quote / select any one of the above, clearly striking out the others. The offer will be summarily rejected if found conflicting)**

Note :

1. The Percentage rate quoted by the tenderer shall be firm and fixed.
2. The Estimated Cost Put to Tender has been worked out by taking into consideration of prevailing Cost Index for the particular zone, DSR 2016 for Civil items, DSR 2018 for electrical items and SSR 2018 (Civil & Electrical) and also considering the Market Rates.
3. The Percentage shall be typed only in figures upto 2 (two) places of decimal along with algebraic sign.

**Signature of the contractor**