

Schedule of quantities						
Name of the work: - Miscellaneous SR works at ESIC Medical College and Hospital, Sanathnagar						
S.No	Item Number	Description	Qty	Unit	Rate(As per DSR 2023)/SSR	Amount in Rs.
1		CEMENT CONCRETE (CAST IN SITU)				
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
3	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	25.919	Cum	6812	176558.53
4	5	REINFORCED CEMENT CONCRETE				
5	5.2	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 :				
6	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	10.125	Cum	10852.95	109886.12
7	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for				
		Columns, Pillars, Piers, Abutments, Posts and Struts	54.00	Sqm	961.3	51910.20
8	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
9	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	4327.31	kg	107.85	466700.65
10		MASONRY WORK				
11	6.4	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 :				
12	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	5.40	Cum	9344.35	50459.49
13	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.80	Cum	9105.95	16390.71
14	6.13	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.				
15	6.13.1	Cement mortar 1:3 (1 cement : 3 coarse sand)	24.00	sqm	1150.5	27612.00
16	6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part there of by mechanical means.	2.00	sqm	15	30.00
17	8	Cladding Work				
18	8.2	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 joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
19	8.2.2	Granite stone slab of colour black, Cherry/Ruby red				
20	8.2.2.2	Area of slab over 0.50 sqm	19.371	sqm	5136.3	99495.27
21	8.3	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.				
22	8.3.2	Granite work	122.150	mtr	510.95	62412.54
23	8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	122.15	mtr	568.55	69448.38
		Granite work				
24	8.5	Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location inmarble/ Granite/ stone work, including necessary holes for pillar tapsetc. including moulding, rubbing and polishing of cut edges etc. complete.	47.00	each	978.70	45998.90
25	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	1387.323	sqm	1267.95	1759056.20
26	9	Wood and PVC work				
27	9.95	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete				
28	9.95.1	125x75x4 mm	336.00	each	150.1	50433.60

29	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
30	9.96.2	250x16 mm	124.00	each	260.6	32314.40
31	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
32	9.97.4	150x10 mm	124.00	each	82.55	10236.20
33	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
34	9.100.1	125	124.00	each	66.25	8215.00
35	10	Steel work				
36	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	18200	kg	133.7	2433340.00
37	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses 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.				
38	10.16.1	Hot finished welded type tubes	5425.7874	Kg	194.4	1054773.07
39	10.19	Providing and fixing bolts including nuts and washers complete	554.40	kg	97.2	53887.68
40	10.28	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-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	1045.991	Kg	772.4	807923.29
40	11	Flooring				
41	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as 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 @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	418.65250	Sqm	1096.55	459073.40
42	13	Finishing				
43	13.1	12 mm cement plaster of mix :				
44	13.1.1	1:4 (1 cement: 4 fine sand)	1389.78	Sqm	347.05	482321.76
45	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
46	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	163.03	Sqm	226.25	36886.24
47	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
48	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	1406.480	sqm	73.95	104009.20
49	13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
50	13.99.1	One or more coats on old work	1406.480	sqm	102.8	144586.14
51		DISMANTLING AND DEMOLISHING				
52	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
53	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	167.46	cum	1503.6	251794.36
54	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
55	15.12.1	Of area 3 sq. metres and below	124.000	each	367.2	45532.80
56	15.14	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead :				
57	15.14.2	Of sectional area below 40 square centimetres	599.54	meter	17.85	10701.79
58	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead	313.08	kg	5.65	1768.89
59	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
60	15.23.1	For thickness of tiles 10 mm to 25 mm	418.6525	Sqm	73.4	30729.09
61	15.42	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :				
62	15.42.1	75 to 80 mm dia pipe	165.00	meter	75.7	12490.50
63	15.42.2	100 mm dia pipe	165.00	meter	78	12870.00

64	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	1389.7760	Sqm	54.65	75951.26
65	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, for all leads including all lifts involved.	167.4610	Cum	263.95	44201.33
66	16	Road Work				
67	16.62	Providing and applying 2.5 mm thick road marking strips (retro reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	905.9940	sqm	747.8	677502.3132
68	17	SANITARY INSTALLATIONS				
69	17.1	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:				
70	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	11.00	each	6767.4	74441.40
71	17.2	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 :				
72	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	22	each	6515.55	143342.10
73	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	22.00	each	231.95	5102.90
74	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	24.00	each	1550.6	37214.40
75	17.10	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 :				
76	17.10.1	Kitchen sink with drain board				
77	17.10.1.2	510x1040 mm bowl depth 225 mm	10.00	each	7514.65	75146.50
78	17.16 A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	22.00	each	349.15	7681.30
79	17.22A	Providing and fixing CP Brass 32 mm size Bottle Trap of approved quality & make as per the direction of Engineer-in-charge.	47.00	each	1034.8	48635.60
80	17.22B	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge. a) 15 mm nominal dia	28.00	each	6940.75	194341.00
81	17.35	Providing and fixing soil, waste and vent pipes :				
82	17.35.1	100 mm dia				
83	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	165.00	meter	1180.75	194823.75
84	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes				
85	17.36.2	100 mm dia pipe	176.00	each	198.15	34874.40
86	17.39	Providing and fixing plain bend of required degree.				
87	17.39.1	100 mm dia				
88	17.39.1.2	Sand cast iron S&S as per IS- 3989	110.00	each	570.05	62705.50
89	17.42	Providing and fixing double equal plain junction of required degree.				
90	17.42.1	100x100x100x100 mm				
91	17.42.1.2	Sand cast iron S&S as per IS - 3989	22.00	each	1075.05	23651.10
92	17.44	Providing and fixing single equal plain junction of required degree				
93	17.44.1	100x100x100x100 mm				
94	17.44.1.2	Sand cast iron S&S as per IS - 3989	88.00	each	811.9	71447.20
95	17.53	Providing and fixing sand cast iron S&S off sets as per IS: 1729				
96	17.53.2	114 mm off sets				
97	17.53.2.2	With 100 mm dia pipe	11.00	each	648.3	7131.30
98	17.57	Providing and fixing collar :				
99	17.57.1	100 mm				
100	17.57.1.2	Sand cast iron S&S as per IS - 3989	110.00	each	513.15	56446.50
101	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				

102	17.60.1	100 mm inlet and 100 mm outlet				
103	17.60.1.1	Sand Cast Iron S&S as per IS: 1729	77.00	each	1996.5	153730.50
104	17.57A	Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe				
105	17.57A.1	100 mm dia	165.00	each	432.05	71288.25
106	17.57A.2.1	SS 304 grade coupling with EPDM rubber gasket	110.00	each	389.05	42795.50
107	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
108	17.60.2	100 mm inlet and 75 mm outlet				
109	17.60.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	77.00	each	591.4	45537.80
110	17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	7.00	each	7979.2	55854.40
		water Supply				
111	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and 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. nternal work - Exposed on wall				
112	18.7.4	32 mm nominal dia Pipes	22.00	meter	518.75	11412.50
113	18.7.5	40 mm nominal dia Pipes	11.00	meter	702.95	7732.45
114	18.7.6	50 mm nominal dia Pipes	11.00	meter	934.15	10275.65
115	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and 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.				
116	18.8.1	15 mm nominal dia Pipes	165.00	meter	497.8	82137.00
117	18.8.2	20 mm nominal dia Pipes	110.00	meter	537.6	59136.00
118	18.8.3	25mm nominal dia Pipes	55.00	meter	627.25	34498.75
119	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions				
120	18.21.2	45 cm length				
121	18.21.2.1	15 mm nominal bore	33.00	each	97.75	3225.75
122	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
123	18.22.2	100 mm diameter	22.00	each	222.35	4891.70
124	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
125	18.50.1	15 mm nominal bore	11.00	each	820.7	9027.70
126	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
127	18.51.1	15 mm nominal bore	11.00	each	798.95	8788.45
128	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
129	18.53.1	15 mm nominal bore	77.00	each	574.3	44221.10
130	26	NEW TECHNOLOGIES AND MATERIALS				
131	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5 mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.				
132	26.86.4	Frame size 50 x 125 mm	534.7350	meter	1075.7	575214.44

133	26.89.2	Providing and fixing 18 mm thick factory made single extruded WPC (Wood Polymer Composite) solid board one side white color and other side of board laminated with PVC foil of minimum 14 micron thickness of approved design pasted with hot melt adhesive for cup boards, work stations and bathroom/kitchen cabinet etc. of required sizes comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant and fixing with stainless steel piano hinges/soft close clip on concealed hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge) For fixing on square hollow tube frame for wash basin counter with glue/screw				
		25 mm thick	218.55932	sqm	3889.15	850009.98
		Sub Total (A)DSR				12884264.18
		SSR items				
		Carving letters and figures in stone above 100 mm size	490.00	Each	14.23	6972.70
134	24 d (SSR)					
135	TBSC-D.VI-22	Providing 10 mm thick UV resistant multiwall polycarbonate sheets fixed to the purlins with aluminium universal glazing set 40mm wide for jointing and fixing sheets and 14 size self-drilling screws with neoprene washer. Side laps are stitched with self-tapping / drilling screws. End laps are to be sealed with 25x3 mm Butyl tape including cost and conveyance of all materials and labour charges, overheads and contractor's profits , etc. complete for finished item of work	143.00	sqm	2400	343200.00
136	TBSC-J.IV-29	Supply and fixing of the frameless Mirror of 4mm thickness of length maximum 8' and height 2' including the cost of all materials, nosing, transportation charges, labour charges for fixing the letters, incidental, overheads & contractors profit etc. complete for finished item of work.	47.28	Sqm	4100	193839.80
137	TBSP-E.VI-11	Supplying & fixing oval shape basin white (520x410mm) parry or equivalent	47.00	each	3912.25	183875.78
138	TBSP-F.V-07	S&F of 15 mm central hole Chromium plated finish brass body basin mixer 450 mm long pipe for hot & cold water mixing conforming to IS 8931 and with 10 years warranty	47.00	each	4296.36	201929.03
		Sub Total(B).....SSR				929817.31
139	NSR	Providing and laying water proofing treatment to sunken floors and inner surfaces of overhead water tank, sump tank etc., By applying necessary surface coving should be done before operation of water proofing treatment:i) First coat of Brush bond RFX @ DFT 1mm thick of M/s Fosroc chemicals or equivalent as per manufactures specification. This coat is to be air cured for 6 hours. (ii) Second coat of Brush bond RFX @ DFT 1mm thick of Fosroc chemicals or equivalent as per manufactures specification. This coat is to be air cured for 6 hours.(iii) Third coat of bond coat with cement slurry mixed with SBR latex @ 3 litres per bag of cement applied as per manufactures specification to get good bonding with next layer (iv) Fourth coat of 12mm thick cement plaster in cement mortar 1:3(1 cement: 3 Coarse sand) with floating coat of neat cement punning both admixed with conplast X421 IC of Fosroc or pidi proof 101 IW of pidilite or equivalent applied before the air curing of third layer. The rate includes preparation of surface treatment, removal of dust from surface using compressed air and sealing of all joints, corners, junctions of pipes and RCC with polymer mixed slurry etc., all complete as per the Engineer in charge	418.65	Sqm	1,134.57	474990.57
140	NSR	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge	418.65	Sqm	531.180	222379.83
141	NSR	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of sunken	777.563	Sqm	1684.600	1309881.79
		Sub Total(C).....NSR				2007252.19
		Scrap material				
		Stainless steel	291	kg	150	43650.00
		Rusted Iron	313.08	kg	30	9392.35

142		Sub Total Scrap metrial	53042.35
		Add 0.973 of modified estimated cost after using correction factor on DSR 2023 items(0.973*Sub Total (A)).....(D)	12536389.044
		Add cost index(103-100)/100 on DE	376091.67
		Total (D+E)....F	12912480.72
		Total (B+C+F)-Scrap metrial.....G	15796507.86