

COST SUMMARY for ARM works 2025

Name of Work : "Annual Repair and Maintenance (ARMO-Civil) Works at ESIC Dental College, Paramedical College and Staff Quarters and allied buildings at ESIC Campus, Kalaburagi"

Abstract for ARM Estimate for ESIC Gulbarga.

Sl No	Item Head	Amount	Remarks
A	Manpower	74 92 836.92	
B	Material of civil	49 46 644.68	
C	Item works of civil	2 17 45 053.74	
D	Total Amount(A+B+C)	3 41 84 535.34	

ESI,EPF, BONUS wherever applicable will be reimbursed on actuals from time to time on submission of Documentary proofs.

The Estimated cost is inclusive of Contractor's profit at 15%

Name of Work : "Annual Repair and Maintenance (ARMO-Civil) Works at ESIC Dental College, Paramedical College and Staff Quarters and allied buildings at ESIC Campus, Kalaburagi"								
Details of Service Manpower								
Sl. No.	Type of Manpower	Category	Nos	Nos Per Month (26 days per month)	Wage per Day (incl. all) (Area - B)	Total Qty in Man days	Amount	Remarks
A	B	C	D	E	E	F=Ex12	G=ExF	
1	Providing service of supervisor which includes, Engaging of Supervisor for supervising of day to day maintenance of Civil and plumbing, monitoring of complaints, assigning of complaint, maintaining of register and any other skilled manpower as required for maintenance etc. as directed by Engineer-in-charge (person should be Highly skilled). (1 Nos.) (Qualification:B.Tech/Diploma in Civil Engineering with 10 Years Experience (Supervisory) in maintenance Job.	Highly Skilled	1	26	1,467.50	312.00	4,57,861.33	As per Actual requirement in the site by considering the day to day ESIC DC & other buildings/services based on directions of competent authority.
			1					
	Total Amount for Operating Manpower (A)						4,57,861.33	
Details of Operating Manpower								
Sl. No.	Type of Manpower	Category	Nos	Nos Per Month (26 days per month)	Wage per day (incl. all) (Area - B)	Total Qty in Man days	Amount	Remarks
A	B	C	D	E	F	G=Ex12	H=FxG	
2	Providing service of Sewer man for attending complaints like clearing of blockages/chockages in existing sewer lines, Gully trap,floor traps, manhole, sanitary lines by removing and refixing the CI/SCI doors in Y-junction/Tjunction rain water pipes, storm water drain etc at all height complete as directed by Engineer-in-charge . (2 Nos.) (Qualification:Nil) (Semi skilled)	Un Skilled	2	52	1,138.75	624.00	7,10,578.69	
3	Engaging of Plumber for day to day maintenance/providing Services for plumbing to internal and external water supply and sanitary lines by replacing the worn out pipe, sanitary and water supply fittings/fixture like bibcock, stop cock, pillar cock,washbasin, PVC connection, waste coupling, valve, ball cock, at all height etc. Complete as per Engineer-in- charge (10Nos) (Qualification: Nil) (Skilled) with 3 Years Experience in (Plumbing)in maintenance Job	Skilled	4	104	1,343.80	1,248.00	16,77,064.33	
4	Outsourcing of unskilled Labour / Helper/Balder for helping the Highly Skilled / Skilled manpower in day to day attending the complaint for plumber/ Carpenter and sewer man and for also attending unskilled services etc., as directed by the Engineer-in-charge (10Nos.) (Qualification: Nil) (Unskilled)	Un Skilled	6	156	1,138.75	1,872.00	21,31,736.06	As per Actual requirement in the site by considering the day to day ESIC DC & other buildings/services based on directions of competent authority.
5	Providing the services of Carpenter for Carpentry services like doors/window/Ventilators/cup boards/ removing and refixing of hardware fixture/fittings, Mortice locks, door handles, tower bolts etc, as directed by the Engineer-in-charge (2 Nos.) (Qualification: Nil) (Skilled) with 3 Years experience in Carpenter Job	Skilled	4	104	1,343.80	1,248.00	16,77,064.33	
6	Providing the services of Mason for masonry services like carrying out all concrete, brick, PCC, RCC, Plastering services etc., as directed by the Engineer-in-charge (1 Nos.) (Qualification: Nil) (Skilled) with 5 Years experience in Manson Job	Skilled	2	52	1,343.80	624.00	8,38,532.17	
			18		19.00			
	Total Amount (B)						70,34,975.58	
	Total of Manpower (A+B)						74,92,836.92	

Supplying of Materials													
Sl.No	DSR No 2023	Description	Unit	Qty	Rate (Excl. GST)	Amount	Add CI @ 9.345%	Rate incl. of CI	Add GST @ 18%	Rate Incl. of GST	Add CPOH @ 15%	Final Rate	Final Amount
1	7257	C.P Brass bibcock 15mm	Each	150	33.00	49,500.00	30.84	360.84	64.95	425.79	63.87	489.66	73 448.68
2	7259	C.P Brass long body bibcock 15mm	Each	150	53.00	79,500.00	49.53	579.53	104.32	693.84	102.58	786.42	11 7963.03
3	7260	C.P Brass stop cock 15mm	Each	100	44.50	44,500.00	41.59	486.59	87.59	574.17	86.13	660.30	66 029.62
4	1546	G.I pipes 20mm dia	Meter	50	139.00	6 950.00	12.99	151.99	27.36	179.35	26.90	206.25	10 312.49
5	1547	G.I pipes 25mm dia	Meter	50	197.00	9 850.00	18.41	215.41	38.77	254.18	38.13	292.31	14 615.54
6	1548	G.I pipes 32mm dia	Meter	50	247.00	12 350.00	23.08	270.08	48.61	318.70	47.80	366.50	18 325.07
7	1551	G.I pipes 65mm dia	Meter	50	450.00	22 500.00	42.05	492.05	88.57	580.62	87.09	667.72	33 385.76
8	1608	G.I tees (equal) 25mm	Each	25	70.00	1 750.00	6.54	76.54	13.78	90.32	13.55	103.87	2 596.67
9	1612	G.I tees (equal) 65mm	Each	25	480.00	12 000.00	44.86	524.86	94.47	619.33	92.90	712.23	17 805.74
10	1642	G.I Union 20mm nominal bore	Each	10	60.00	600.00	5.61	65.61	11.81	77.42	11.61	89.03	890.29
11	1643	G.I Union 25mm nominal bore	Each	10	125.00	1 250.00	11.68	136.68	24.60	161.28	24.19	185.48	1 854.76
12	1644	G.I Union 32mm nominal bore	Each	10	160.00	1 600.00	14.95	174.95	31.49	206.44	30.97	237.41	2 374.10
13	1646	G.I Union 50mm nominal bore	Each	10	330.00	3 300.00	30.84	360.84	64.95	425.79	63.87	489.66	4 896.58
14	1647	G.I Union 65mm nominal bore	Each	10	550.00	5 500.00	51.40	601.40	108.25	709.65	106.45	816.10	8 160.96
15	1687	Unplasticised P.V.C connection pipe with brass union 30 cm long	Each	100	32.00	3 200.00	2.99	34.99	6.30	41.29	6.19	47.48	4 748.20
16	1689	Unplasticised P.V.C connection pipe with brass union 45 cm long	Each	100	38.00	3 800.00	3.55	41.55	7.48	49.03	7.35	56.38	5 638.48
17	1878	Shower rose C.P brass for 15 to 20mm inlet 100 mm dia	Each	10	121.00	1 210.00	11.31	132.31	23.92	156.12	23.42	179.54	1 795.41
18	7509	PTMT Soap Dish/Holder 138*102*75mm	Each	100	63.00	6 300.00	5.89	68.89	12.40	81.29	12.19	93.48	9 348.01
19	7508	PTMT Urinal spreader 15mm	Each	25	60.00	1 500.00	5.61	65.61	11.81	77.42	11.61	89.03	2 225.72
20	7504	PTMT Tower ring 251*200*37mm	Each	125	117.00	14 625.00	10.93	127.93	23.03	150.96	22.64	173.61	21 700.75
21	7505	PTMT Tower Rail (450mm long)	Each	100	132.00	13 200.00	12.34	144.34	25.98	170.32	25.55	195.86	19 586.31
22	1956	Bolts and nuts 16mm dia 60mm long	Each	50	12.00	600.00	1.12	13.12	2.36	15.48	2.32	17.81	890.29
23	1958	Bolts and nuts 20mm dia 60mm long	Each	50	15.00	750.00	1.40	16.40	2.95	19.35	2.90	22.26	1 112.86
24	367	Portland Cement (OPC-43 Grade)	Tonne	2	5 156.00	10 312.00	481.83	5 637.83	1 014.81	6 652.64	997.90	7 650.53	15 301.07
25	983	Fine Sand (Zone 4)	Cum	20	98.00	19 600.00	91.58	1 071.58	192.88	1 264.47	189.67	1 454.14	29 082.71
26	982	Coarse Sand (Zone 4)	Cum	20	1 450.00	29 000.00	135.50	1 585.50	285.39	1 870.89	280.63	2 151.53	43 030.54
27	295	Stone Aggregate 20mm	Cum	15	1 425.00	21 375.00	133.17	1 558.17	280.47	1 838.64	275.80	2 114.43	31 716.47
28	1309	C.I Bracket for wash basin and sinks	Pair	50	95.00	4 750.00	8.88	103.88	18.70	122.58	18.39	140.96	7 048.11
29	7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	Each	100	319.00	31 900.00	29.81	348.81	62.79	411.60	61.74	473.34	47 333.59
30	1871	White vitreous china laboratory sink 450*300*150mm	Each	25	1 650.00	41 250.00	154.19	1 804.19	324.75	2 128.95	319.34	2 448.29	61 207.23
31	1872	White vitreous china laboratory sink 600*450*200mm	Each	25	2 750.00	68 750.00	256.99	3 006.99	541.26	3 548.25	532.24	4 080.48	1 02 012.05
32	1875	White plastic seat with C.P Brass hinges and rubber buffers	Each	50	451.00	22 550.00	42.15	493.15	88.77	581.91	87.29	669.20	33 459.95
33	1885	15mm C.P Brass tap	Each	150	297.00	44 550.00	27.75	324.75	58.46	383.21	57.48	440.69	66 103.81
34	1889	C.P Brass toilet paper holder of standard size	Each	50	308.00	15 400.00	28.78	336.78	60.62	397.40	59.61	457.01	22 850.70
35	1947	Vitreous china flat back wash basin 630*450mm	Each	30	798.00	23 940.00	74.57	872.57	157.06	1 029.64	154.45	1 184.08	35 522.45
36	3229	Vitreous china flat back wash basin 550*400mm	Each	30	554.00	16 620.00	51.77	605.77	109.04	714.81	107.22	822.03	24 660.95
37	7004	Vitreous china flat back wash basin 450*300mm	Each	30	297.00	8 910.00	27.75	324.75	58.46	383.21	57.48	440.69	13 220.76
38	593	C.P Brass extenstion nipple (1/2"2" size)	Each	100	46.00	4 600.00	4.30	50.30	9.05	59.35	8.90	68.26	6 825.53
39	7363	15mm C.P Brass tap with elbow operation lever	Each	50	464.00	23 200.00	43.36	507.36	91.32	598.69	89.80	688.49	34 424.43
40	999	Shellac	Kg	10	300.00	3 000.00	28.04	328.04	59.05	387.08	58.06	445.14	4 451.43
41	8636	CPVC pipe 15mm dia	Meter	100	46.00	4 600.00	4.30	50.30	9.05	59.35	8.90	68.26	6 825.53
42	8637	CPVC pipe 20mm dia	Meter	150	59.00	8 850.00	5.51	64.51	11.61	76.13	11.42	87.54	13 131.73
43	8638	CPVC pipe 25mm dia	Meter	150	95.00	14 250.00	8.88	103.88	18.70	122.58	18.39	140.96	21 144.32
44	8639	CPVC pipe 32mm dia	Meter	50	140.00	7 000.00	13.08	153.08	27.55	180.64	27.10	207.73	10 386.68
45	8640	CPVC pipe 40mm dia	Meter	50	200.00	10 000.00	18.69	218.69	39.36	258.05	38.71	296.76	14 888.12
46	8641	CPVC pipe 50mm dia	Meter	50	325.00	16 250.00	30.37	355.37	63.97	419.34	62.90	482.24	24 111.94
47	1933	Gummetal non-return valve- horizontal (screwed end) 25mm dia	Each	20	385.00	7 700.00	35.98	420.98	75.78	496.75	74.51	571.27	11 425.35
48	1954	Vitreous china Orrisa type W.C pan size 580mm	Each	15	1 350.00	20 250.00	126.16	1 476.16	265.71	1 741.87	261.28	2 003.15	30 047.19
49	2602	Common brunn clay F.P.S (non-modular) bricks class designation	1000no.	8	4 724.00	37 792.00	441.46	5 165.46	929.78	6 095.24	914.29	7 009.53	56 076.21
50	7096	Stainless steel kitchen sink with drain board 510*1040mm bowl	Each	10	3 600.00	36 000.00	336.42	3 936.42	705.86	4 644.98	696.75	5 341.72	53 417.22
51	7101	Stainless steel kitchen sink with drain board 610*150mm bowl	Each	10	2 350.00	23 500.00	219.61	2 569.61	462.53	3 032.14	454.82	3 486.96	34 869.57
52	7118	Semi rigid P.V.C waste pipe for sink and wash basin 40mm dia	Each	50	36.00	1 800.00	3.36	39.36	7.09	46.45	6.97	53.42	2 670.86
53	7361	PVC automatic flushing cistern 10 liter capacity	Each	25	545.00	13 625.00	50.93	595.93	107.27	703.20	105.48	808.68	20 216.93
54	7126	White Vitreous China 10 liter full flush capacity	Each	10	730.00	7 300.00	68.22	798.22	143.68	941.90	141.28	1 083.18	10 831.83
55	368	white cement	Tonne	0.5	10 500.00	5 250.00	981.23	11 481.23	2 066.62	13 547.85	2 032.18	15 580.02	7 790.01
56	362	brick bats	Cum	10	525.00	5 250.00	49.06	574.06	103.33	677.39	101.61	779.00	7 790.01
57	555	Chromite plated brass handle 125mm with plate 175*32mm	Each	150	152.00	22 800.00	14.20	166.20	29.92	196.12	29.42	225.54	33 830.91
58	556	Chromite plated brass handle 100mm with plate 150*32mm	Each	150	135.00	20 250.00	12.62	147.62	26.57	174.19	26.13	200.31	30 047.19
59	558	Chromite plated brass mortice latch and lock 100*65mm with	Each	100	541.00	54 100.00	50.56	591.56	106.48	698.04	104.71	802.74	80 274.21
60	584	Chromite plated brass Wardrobe knob 50mm	Each	100	93.00	9 300.00	8.69	101.69	18.30	120.00	18.00	137.99	13 799.45
61	589	Chromite plated brass screws 20mm	100no.	5.5	177.00	973.50	16.54	193.54	34.84	228.38	34.26	262.63	1 444.49
62	588	Chromite plated brass screws 25mm	100no.	5.5	177.00	973.50	16.54	193.54	34.84	228.38	34.26	262.63	1 444.49
63	642	Oxidised mild steel bath tubes 125*65*212mm	10no.	27	135.00	3 634.62	12.62	147.62	26.57	174.19	26.13	200.31	5 393.09
64	643	Oxidised mild steel bath tubes 100*58*190mm	10no.	26	96.00	2 541.18	8.97	104.97	18.89	123.87	18.58	142.45	3 770.63
65	660	Oxidised mild steel sliding door bolt 300*16mm	Each	50	100.00	5 000.00	9.35	109.35	19.68	129.03	19.35	148.38	7 419.06
66	661	Oxidised mild steel sliding door bolt 250*16mm	Each	50	85.00	4 250.00	7.94	92.94	16.73	109.67	16.45	126.12	6 306.20
67	662	Oxidised mild steel door latch 300*20*6mm	Each	50	55.00	2 750.00	5.14	60.14	10.83	70.96	10.64	81.61	4 080.48
68	663	Oxidised mild steel door latch 250*20*6mm	Each	50	42.00	2 100.00	3.92	45.92	8.27	54.19	8.13	62.32	3 116.00
69	664	Oxidised mild steel tower bolt (barrel type) 250*10mm	Each	150	45.00	6 750.00	4.21	49.21	8.86	58.06	8.71	66.77	10 015.73
70	665	Oxidised mild steel tower bolt (barrel type) 200*10mm	Each	100	36.00	3 600.00	3.36	39.36	7.09	46.45	6.97	53.42	5 341.72
71	668	Oxidised mild steel handles 125mm	Each	100	21.00	2 100.00							

122	702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 nos	100	240.00	24 000.00	22.43	262.43	47.24	309.67	46.45	356.11	35 611.48
123	696	Anodised Aluminium sliding door bolt 300x16 mm	Each	100	160.00	16 000.00	14.95	174.95	31.49	206.44	30.97	237.41	23 740.99
124	1953	Vitreous china Indian type W.C. pan of size 580 mm	Each	10	500.00	5 000.00	46.73	546.73	98.41	645.14	96.77	741.91	7 419.06
125	2407	float glass panes of nominal thickness 5 mm (weight not less than 12.50 kg/sqm)	Each	20	529.00	10 580.00	49.44	578.44	104.12	682.55	102.38	784.94	15 698.73
126	7394	Double action hydraulic floor spring with stainless steel cover plate	Each	20	1 615.00	32 300.00	150.92	1 765.92	317.87	2 083.79	312.57	2 396.36	47 927.12
127	8647	Stainless steel screws 30 mm x 4 mm	100 nos	100	42.00	4 200.00	3.92	45.92	8.27	54.19	8.13	63.22	6 232.01
128	1219	Nails	Kg	10	58.00	580.00	5.42	63.42	11.42	74.84	11.23	86.06	860.61
130	7121	Bottle trap	Each	50	682.00	34 100.00	63.73	745.73	134.23	879.96	131.99	1 011.96	50 597.98
131	8646	Weather silicon sealent(cartridge)	Each	25	125.00	3 125.00	11.68	136.68	24.60	161.28	24.19	185.48	4 636.91
132	8778	Toughened glass 12mm thick	Sqm	25	1 925.00	48 125.00	179.89	2 104.89	378.88	2 483.77	372.57	2 856.34	71 408.44
133	7059	Aluminum hanging floor door stopper with twin rubber	Each	100	44.00	4 400.00	4.11	49.11	8.66	56.77	8.52	65.29	6 528.77
134	7921	Acrylic Polymer chemical for cracks	Kg	10	2.00	20.00	.19	2.19	.39	2.58	.39	2.97	29.68
135	8597	GI Metal Tile Clip in Plain Bevelled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	Sqm	25	793.00	19 825.00	74.11	867.11	156.08	1 023.18	153.48	1 176.66	29 416.57
136	8566	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long)	Each	100	296.00	29 600.00	27.66	323.66	58.26	381.92	57.29	439.21	43 920.82
137	8568	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	Each	100	120.00	12 000.00	11.21	131.21	23.62	154.83	23.22	178.06	17 805.74
138	8569	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40 mm (600 mm long)	Each	100	60.00	6 000.00	5.61	65.61	11.81	77.42	11.61	89.03	8 902.87
139	7187	C.L grating 150 mm dia, weighing not less than 440 gm	Each	25	29.00	725.00	2.71	31.71	5.71	37.42	5.61	43.03	1 075.76
140	7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	Each	25	237.00	5 925.00	22.15	259.15	46.65	305.79	45.87	351.66	8 791.58
141	7019	Dash fastener	Each	50	13.00	650.00	1.21	14.21	2.56	16.77	2.52	19.29	964.48
142	7335	Binding wire	Kg	5	50.00	250.00	4.67	54.67	9.84	64.51	9.68	74.19	370.95
143	7449	Aluminium U bearing	Kg	25	220.00	5 500.00	20.56	240.56	43.30	283.86	42.58	326.44	8 160.96
144	2611	EPDM Gasket 1kg (Above 60 g / m)	Kg	15	163.00	2 445.00	15.23	178.23	32.08	210.31	31.55	241.86	3 627.92
145	7506	PTMT - Towel Rail (600 mm long)	Each	25	157.00	3 925.00	14.67	171.67	30.90	202.57	30.39	232.96	5 823.96
146	8588	Galvanised MS hanger rod 6mm dia MS fully threaded up to 1000mm length	Each	50	17.00	850.00	1.59	18.59	3.35	21.93	3.29	25.22	1 261.24
147	1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia.	Each	50	237.00	11 850.00	22.15	259.15	46.65	305.79	45.87	351.66	17 583.17
148	1246	Silicon based Joint Sealant for Tiles	Kg	20	160.00	3 200.00	14.95	174.95	31.49	206.44	30.97	237.41	4 748.20
149	431	Brass hasps and staples (safety type) 150 mm 10 Nos	Each	25	814.00	20 350.00	76.07	890.07	160.21	1 050.28	157.54	1 207.82	30 195.57
150	2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	Each	40	58.00	2 320.00	5.42	63.42	11.42	74.84	11.23	86.06	3 442.44
151	554	125mm SS fancy handles for kitchen cabinet	Each	50	71.00	35 500.00	66.35	776.35	139.74	916.09	137.41	1 053.51	52 675.31
152	593	C.P. Brass Extension Nipple (1/2" x 2" size)	Each	50	46.00	2 300.00	4.30	50.30	9.05	59.35	8.90	68.26	3 412.77
153	714	Block board construction flush door with teak wood ply on both faces 30 mm thick	Sqm	15	1 645.00	24 675.00	153.73	1 798.73	323.77	2 122.50	318.37	2 440.87	36 613.05
154	828	Anticorrosive bituminous paint (black)	Litre	15	120.00	1 800.00	11.21	131.21	23.62	154.83	23.22	178.06	2 670.86
155	992	Galvanised steel plain sheets	Quintal	0.3	6 800.00	2 040.00	635.46	7 435.46	1 338.38	8 773.84	1 316.08	10 089.92	3 026.98
156	1019	Mild steel hooks	Each	100	32.00	3 200.00	2.99	34.99	6.30	41.29	6.19	47.48	4 748.20
157	1220	Wire mesh (rabbit)	Sqm	25	42.00	1 050.00	3.92	45.92	8.27	54.19	8.13	62.32	1 558.00
158	1950	Vitreous china angle back wash basin 400x400 mm	Each	15	468.00	7 020.00	43.73	511.73	92.11	603.85	90.58	694.42	10 416.36
159	1951	C.P. brass waste 32 mm.	Each	35	94.00	3 290.00	8.78	102.78	18.50	121.29	18.19	139.48	4 881.74
160	7363	15 mm C.P. brass tap with elbow operation lever	Each	30	464.00	13 920.00	43.36	507.36	91.32	598.69	89.80	688.49	20 654.66
161	351	0351 Integral crystalline slurry	Kg	50	214.00	10 700.00	20.00	234.00	42.12	276.12	41.42	317.54	15 876.78
162	353	0353 Crystalline mortar	Kg	150	209.00	31 350.00	19.53	228.53	41.14	269.67	40.45	310.12	46 517.50
163	1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	Each	50	67.50	3 375.00	6.31	73.81	13.29	87.09	13.06	100.16	5 007.86
Sub Total 1:													
28 55 055.85													
NDSR ITEMS:													
SlNo	NDSR/MR	Description	Unit	Qty	Rate incl of GST	Amount				Add CPOH @ 15%	Final Rate	Final Amount	
1	NDSR	CPVC Elbow 90 15*15 mm (Brass)	Each	50	39.52	1 976.00				5.93	45.45		2 272.40
2	NDSR	CPVC Elbow 90 20*15 mm (Brass)	Each	50	42.35	2 117.50				6.35	48.70		2 435.13
3	NDSR	CPVC Elbow 90 20*20 mm (Brass)	Each	50	48.95	2 447.50				7.34	56.29		2 814.63
4	NDSR	CPVC Elbow 15 mm	Each	50	10.20	510.00				1.53	11.73		586.50
5	NDSR	CPVC Elbow 25 mm	Each	100	21.46	2 146.00				3.22	24.68		2 467.90
6	NDSR	CPVC Reducing Elbow 20mm to 15mm	Each	50	36.64	1 832.00				5.50	42.14		2 106.80
7	NDSR	CPVC Reducing Elbow 25mm to 15mm	Each	50	45.65	2 282.50				6.85	52.50		2 624.88
8	NDSR	CPVC Reducing Elbow 25mm to 20mm	Each	50	52.45	2 622.50				7.87	60.32		3 015.88
9	NDSR	CPVC Tee 15mm	Each	50	17.26	863.00				2.59	19.85		992.45
10	NDSR	CPVC Tee 25mm	Each	50	26.68	1 334.00				4.00	30.68		1 534.10
11	NDSR	CPVC Reducer Tee 20*20*15	Each	50	45.78	2 289.00				6.87	52.65		2 632.35
12	NDSR	CPVC Reducer Tee 25*25*15	Each	50	48.56	2 428.00				7.28	55.84		2 792.20
13	NDSR	CPVC Reducer Tee 25*25*20	Each	50	52.69	2 634.50				7.90	60.59		3 029.68
14	NDSR	CPVC Coupling (collar) 15 mm	Each	50	8.64	432.00				1.30	9.94		496.80
15	NDSR	CPVC Coupling 25 mm	Each	50	14.40	720.00				2.16	16.56		828.00
16	NDSR	CPVC Reducing Coupling 20 *15	Each	50	41.72	2 086.00				6.26	47.98		2 398.90
17	NDSR	CPVC Reducing Coupling 25 *15	Each	50	46.50	2 325.00				6.98	53.48		2 673.75
18	NDSR	CPVC Reducing Coupling 25 *20	Each	50	54.36	2 718.00				8.15	62.51		3 125.70
19	NDSR	CPVC MAPT 15 mm	Each	50	12.56	628.00				1.88	14.44		722.20
20	NDSR	CPVC MAPT 25 mm	Each	50	18.32	916.00				2.75	21.07		1 053.40
21	NDSR	CPVC FAPT 15 mm	Each	50	15.96	798.00				2.39	18.35		917.70
22	NDSR	CPVC FAPT 25 mm	Each	50	23.82	1 191.00				3.57	27.39		1 369.65
23	NDSR	CPVC Union 25 mm	Each	50	59.92	2 996.00				8.99	68.91		3 445.40
24	NDSR	CPVC End cap 15 mm	Each	25	7.60	190.00				1.14	8.74		218.50
25	NDSR	CPVC End cap 25 mm	Each	25	12.04	301.00				1.81	13.85		346.15
26	NDSR	CPVC Elbow 45 15 mm	Each	50	15.18	759.00				2.28	17.46		872.85
27	NDSR	CPVC Elbow 25 mm	Each	50	26.16	1 308.00				3.92	30.08		1 504.20
28	NDSR	CPVC Bushing 15 mm	Each	25	10.46	261.50				1.57	12.03		300.73
29	NDSR	CPVC Bushing 25 mm	Each	25	15.36	384.00				2.30	17.66		441.60
30	NDSR	Tank nipple (Adaptor) 25 mm	Each	5	52.80	264.00				7.92	60.72		303.60
35	NDSR	CPVC Ball valve / gate valve 15mm	Each	25	125.60	3 140.00				18.84	144.44		3 611.00
36	NDSR	CPVC Ball valve / gate valve 25mm	Each	25	220.50	5 512.50				33.08	253.58		6 339.38
37	NDSR	CPVC Solvent	Tin of 946 ml	30	2 350.00	70 500.00				352.50	2 702.50		81 075.00
38	NDSR	Health Faucet Jaquar code ALD-CHR-587	Each	100	1 815.00	18 150.00				272.25	2 087.25		2 08 725.00
39	NDSR	Spindle for tap	Each	200	385.23	77 046.00				57.78	443.01		88 602.90
40	NDSR	Steel jali (grating)100mm	Each	40	.00	.00				.00	.00		.00
41	NDSR	PVC Bottle Trap 32 mm	Each	40	.00	.00				.00	.00		.00
42													

CIVIL ITEMS WORK ABSTRACT:									
Name of Work : "Annual Repair and Maintenance (ARMO-Civil) Works at ESIC Dental College, Paramedical College and Staff Quarters and allied buildings at ESIC Campus, Kalaburagi"									
A. CIVIL WORK SCHEDULE									
Sl. No	DSR No.2023	Description of Items	Units	Rate	Quantity	Amount	Add CI @ 9.345%	Final Rate	Final Amount
DSR ITEMS									
Earth Work									
1	1.1.18	Disposal of morum/ building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-Charge.	Cum	494.10	150.00	74,115.00	46.17	540.27	81,041.05
2	2.8	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.					-		
	2.8.1	All kinds of soil	cum	260.30	100.00	26,030.00	24.33	284.63	28,462.50
3	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :					-		
	2.10.1	All kinds of soil					-		
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	352.15	100.00	35,215.00	32.91	385.06	38,505.84
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	196.00	50.00	9,800.00	18.32	214.32	10,715.81
5	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.					-		
	2.28.1	All kinds of soil	sqm	34.15	500.00	17,075.00	3.19	37.34	18,670.66
6	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. 3 times cleaning	Sqm	17.60	25 000.00	4,40,000.00	1.64	19.24	4,81,118.00
Concrete works									
7	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	sqm	749.30	20.00	14,986.00	70.02	819.32	16,386.44
8	4.1	providing and Laying in position cement concrete of specified grade excluding the cost of centering and shuuttering -all work upto Plinth Level:							
	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum.	6 812.00	15.00	1,02,180.00	636.58	7,448.58	1,11,728.72
9	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :					-		
	4.2.5	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	9 311.40	20.00	1,86,228.00	870.15	10,181.55	2,03,631.01
10	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for					-		
	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps	sqm	842.50	20.00	16,850.00	78.73	921.23	18,424.63
Reinforced Concrete works									
11	5.3	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).	cum	11 505.50	10.00	1,15,055.00	1,075.19	12,580.69	1,25,806.89
12	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					-		
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	sqm	927.25	75.00	69,543.75	86.65	1,013.90	76,042.61
13	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					-		
	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500 D or more	kg	107.85	500.00	53,925.00	10.08	117.93	58,964.29
Brick Work									
14	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					-		
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	7 132.25	10.00	71,322.50	666.51	7,798.76	77,987.59

15	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 :					-		
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	9 105.95	2.00	18,211.90	850.95	9,956.90	19,913.80
16	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					-		
	6.13.1	Cement mortar 1:3 (1 cement :3 coarse sand)	sqm	1 150.50	10.00	11,505.00	107.51	1,258.01	12,580.14
Granite Work									
17	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 laid over 20 mm thick base cementmortar 1:4 (1 cement : 4 coarse sand), 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.					-		
	8.2.2.2	Granite of any colour and shade Area of slab over 0.50 sqm	sqm	5 136.30	25.00	1,28,407.50	479.99	5,616.29	1,40,407.18
18	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.					-		
	8.3.2	Granite work	metre	510.95	30.00	15,328.50	47.75	558.70	16,760.95
19	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.	metre	568.55	30.00	17,056.50	53.13	621.68	18,650.43
20	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete	each	978.70	25.00	24,467.50	91.46	1,070.16	26,753.99
21	8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	sqm	506.70	20.00	10,134.00	47.35	554.05	11,081.02
22	8.8	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.					-		
	8.8.1	Wedge expansion type					-		
	8.8.1.3	Fastener with threaded dia 12 mm	each	61.70	200.00	12,340.00	5.77	67.47	13,493.17
23	8.20	Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).					-		
	8.20.2	White sand stone - 30mm thick gang saw cut stone.	sqm	3 040.10	20.00	60,802.00	284.10	3,324.20	66,483.95
24	8.19	Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of	sqm	165.85	20.00	3,317.00	15.50	181.35	3,626.97
25	8.22	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.	each	437.00	20.00	8,740.00	40.84	477.84	9,556.75
Wood & PVC Work									
26	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					-		
	9.1.1	Second class teak wood	Cum	1 42 949.70	.10	14,294.97	13,358.65	1,56,308.35	15,630.83
	9.1.2	Sal wood (Repair of door, window of hospital, ESID & BO.)	Cum	1 16 520.30	.10	11,652.03	10,888.82	1,27,409.12	12,740.91
27	9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineer-in-charge and panelling with panels of :					-		
	9.6.3	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade - 1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	Sqm	3 450.30	35.00	1,20,760.50	322.43	3,772.73	1,32,045.57
28	9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.					-		
	9.51.1	With 2nd class teak wood beading 62X19 mm	sqm	1 308.35	25.00	32,708.75	122.27	1,430.62	35,765.38
29	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					-		
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	3 473.85	60.00	2,08,431.00	324.63	3,798.48	2,27,908.88

	9.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	sqm	2 819.25	60.00	1,69,155.00	263.46	3,082.71	1,84,962.53
30	9.48	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.					-		
	9.48.2	Fixed to openings/ wooden frames with rawl plugs screws etc	Kg	238.35	200.00	47,670.00	22.27	260.62	52,124.76
31	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	each	121.65	50.00	6,082.50	11.37	133.02	6,650.91
32	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	1 124.85	50.00	56,242.50	105.12	1,229.97	61,498.36
33	9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.					-		
	9.90.4	Size 75 mm	each	409.35	50.00	20,467.50	38.25	447.60	22,380.19
34	9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:					-		
	9.92.1	125 mm	each	231.05	150.00	34,657.50	21.59	252.64	37,896.24
35	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 :					-		
	9.96.1	300x16 mm	each	303.25	100.00	30,325.00	28.34	331.59	33,158.87
	PVC Door								
36	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineerin-Charge.	metre	492.70	30.00	14,781.00	46.04	538.74	16,162.28
37	9.120	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. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.					-		
	9.120.1	30 mm thick plain PVC door shutters	sqm	3 182.95	15.00	47,744.25	297.45	3,480.40	52,205.95
38	9.122	Providing and fixing to existing door frames.					-		
	9.122.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames	sqm	3 720.75	30.00	1,11,622.50	347.70	4,068.45	1,22,053.62
39	9.129	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	sqm	2 307.35	10.00	23,073.50	215.62	2,522.97	25,229.72
40	9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.					-		
	9.135.1	With 2nd class teak wood beading 62X19 mm	sqm	1597.15	30.00	47,914.50	149.25	1,746.40	52,392.11
	Steel Works								
41	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	sqm	11 439.60	10.00	1,14,396.00	1,069.03	12,508.63	1,25,086.31

42	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.					-		
	10.16.2	Hot finished seamless type tubes	kg	206.35	700.00	1,44,445.00	19.28	225.63	1,57,943.39
43	10.22	Welding by gas or electric plant including transportation of plant at site etc. complete.	cm.	3.70	900.00	3,330.00	0.35	4.05	3,641.00
44	10.25	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.					-		
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	172.60	700.00	1,20,820.00	16.13	188.73	1,32,110.63
45	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-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	772.40	50.00	38,620.00	72.18	844.58	42,229.04
Flooring									
46	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.	Sqm	1 267.95	75.00	95,096.25	118.49	1,386.44	1,03,982.99
47	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					-		
	11.26.1	25 mm thick	sqm	1 948.25	50.00	97,412.50	182.06	2,130.31	1,06,515.70
48	11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 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.	Sqm	1 330.00	50.00	66,500.00	124.29	1,454.29	72,714.43
49	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm 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.					-		
	11.41.2	Size of Tile 600x600 mm	Sqm	1 553.45	50.00	77,672.50	145.17	1,698.62	84,931.00
50	11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.					-		
	11.56.1	Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	4 481.30	10.00	44,813.00	418.78	4,900.08	49,000.77
Roofing									
51	12.31.1	Providing and fixing 10 mm thick plaster of paris gypsum ceiling up to a height 5 m above floor level, over first class kail wood strips 25*6 mm with 10 mm gap in between frame flate surface .	sqm	1 718.95	20.00	34,379.00	160.64	1,879.59	37,591.72
52	12.41	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,					-		
	12.41.2	110 mm dia	meter	377.40	50.00	18,870.00	35.27	412.67	20,633.40
53	12.42	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.					-		
	12.42.1	Coupler					-		
54	12.42.1.2	110 mm	Each	136.15	20.00	2,723.00	12.72	148.87	2,977.46
	12.42.3	Single tee with door					-		
55	12.42.3.2	110 mm	Each	234.15	20.00	4,683.00	21.88	256.03	5,120.63
	12.42.5	Bend 87.5 degree					-		
56	12.42.5.2	110 mm	Each	150.35	20.00	3,007.00	14.05	164.40	3,288.00
	12.42.6	Shoe (Plain)					-		
57	12.42.6.2	110 mm	Each	131.85	20.00	2,637.00	12.32	144.17	2,883.43

58	12.43	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.					-		
	12.43.2	110 mm	Each	371.30	25.00	9,282.50	34.70	406.00	10,149.95
59	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	54.70	25.00	1,367.50	5.11	59.81	1,495.29
60	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 15x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of water proofing for board all necessary manufacturers classification and				-			
	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095 - (Part I) : 2011 (Board with BIS certification marks)	sqm	1 355.80	100.00	1,35,580.00	126.70	1,482.50	1,48,249.95
61	12.46	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.	Each	84.55	20.00	1,691.00	7.90	92.45	1,849.02
62	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	738.65	20.00	14,773.00	69.03	807.68	16,153.54
63	12.52	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.					-		
	12.52.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending	Sqm	1 902.95	20.00	38,059.00	177.83	2,080.78	41,615.61
64	12.52.4	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	sqm	1 528.00	20.00	30,560.00	142.79	1,670.79	33,415.83

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Finishing									
65	13.1	12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 coarse sand)	sqm	347.05	250.00	86,762.50	32.43	379.48	94,870.46
66	13.8	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :				-			
	13.8.1	1:3 (1 cement: 3 fine sand)	sqm	494.30	200.00	98,860.00	46.19	540.49	1,08,098.47
67	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	262.70	800.00	2,10,160.00	24.55	287.25	2,29,799.45
68	13.41.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	sqm.	185.65	200.00	37,130.00	17.35	203.00	40,599.80
69	13.85	Applying primer Coats with primer of approved brand and manufacture, having Low VOC (volatile organic compound) Content.				-			
	13.85.3	with Water thinnable cement primer on wall surface having VOC less than 50Grams/Litre	sqm	73.95	500.00	36,975.00	6.91	80.86	40,430.31
70	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				-			
	13.52.1	On steel work	sqm	241.75	50.00	12,087.50	22.59	264.34	13,217.08
	13.52.2	On concrete work	sqm	235.15	50.00	11,757.50	21.97	257.12	12,856.24
71	13.45	Finishing wall with acrylic smooth exterior paint of required Shade:				-			
	13.45.1	New Work (two or more coats applied @1.67ltr/10 sqm over and including priming coat of exterior primer applied @0.9litre/10Sqm)	sqm	223.00	500.00	1,11,500.00	20.84	243.84	1,21,919.68
72	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				-			
	13.61.1	Two or more coats on new work	sqm	155.90	250.00	38,975.00	14.57	170.47	42,617.21
73	13.88	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	19.75	350.00	6,912.50	1.85	21.60	7,558.47
74	13.81	Distempering with 1st quality acrylic distemper (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture including applying additional coats wherever required to achieve an even shade and colour :				-			
	13.81.1	Old work (one or more coats)	Sqm	62.70	15 000.00	9,40,500.00	5.86	68.56	10,28,389.73
75	13.91	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	25.15	15 000.00	3,77,250.00	2.35	27.50	4,12,504.01
76	13.92.1	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	sqm	93.30	250.00	23,325.00	8.72	102.02	25,504.72
77	13.82	Wall painting with plastic emulsion paint having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade of approved brand and manufacture,including applying additional coats wherever required, to achieve even shade and colour.				-			
	13.82.1	One coat	sqm	92.00	12 000.00	11,04,000.00	8.60	100.60	12,07,168.80
	13.82.2	Two Coats	Sqm	137.45	4 000.00	5,49,800.00	12.84	150.29	6,01,178.81
78	13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				-			
	13.99.1	One or more coats on old work	Sqm	102.80	2 500.00	2,57,000.00	9.61	112.41	2,81,016.65
79	13.104	polishing on wood work with ready made wax polise old work	Sqm	99.80	200.00	19,960.00	9.33	109.13	21,825.26
80	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :				-			
	13.111.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	sqm	120.75	2 500.00	3,01,875.00	11.28	132.03	3,30,085.22

Repairs to building

81	14.4	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per directions of Engineer-In-Charge.				-			
	14.4.1	For door/ window/ clerestory window	sqm	1 264.35	25.00	31,608.75	118.15	1,382.50	34,562.59
82	14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:				-			
	14.5.2	Float glass panes of thickness 5.5 mm	sqm	1 416.15	20.00	28,323.00	132.34	1,548.49	30,969.78
83	14.7	Renewing glass panes and refixing existing wooden fillets:				-			
	14.7.2	Float glass panes of thickness 5.5 mm	sqm	1 552.75	50.00	77,637.50	145.10	1,697.85	84,892.72
84	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 challies, 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 Engineer- in-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	338.25	500.00	1,69,125.00	31.61	369.86	1,84,929.73

85	14.75	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	sqm	670.95	50.00	33,547.50	62.70	733.65	36,682.51
86	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)	liter	0.5	5000	2,500.00	0.05	0.55	2,733.63
87	14.76	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	Nos.	108.30	150.00	16,245.00	10.12	118.42	17,763.10
88	14.77	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres 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.				-			
		manhole chamber/sewer line	mtr	340.75	100.00	34,075.00	31.84	372.59	37,259.31
		Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish,all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-				-			
89	14.78	(i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits.				-			
		(ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.				-			
		(iii) Chlorination of RCC internal surface by liquid chlorine.				-			
		(iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.				-			
		(v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	sqm	422.70	2 300.00	9,72,210.00	39.50	462.20	10,63,063.02
90	14.79	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.	each	433.75	20.00	8,675.00	40.53	474.28	9,485.68
91	14.80	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in-charge.				-			
	14.80.2	Orissa pattern W.C Pan of size 580x440 mm	each	4 478.75	25.00	1,11,968.75	418.54	4,897.29	1,22,432.23
92	14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	each	134.10	20.00	2,682.00	12.53	146.63	2,932.63
Dismantling and Demolishing									
93	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge				-			
	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix	cum	2 434.25	20.00	48,685.00	227.48	2,661.73	53,234.61
94	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	cum.	3 551.25	20.00	71,025.00	331.86	3,883.11	77,662.29
95	15.7	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.				-			
	15.7.4	In cement mortar	cum	2 060.25	20.00	41,205.00	192.53	2,252.78	45,055.61
96	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				-			
	15.12.1	Of area 3 sq. metres and below	each	367.20	15.00	5,508.00	34.31	401.51	6,022.72
97	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.	kg	5.65	200.00	1,130.00	0.53	6.18	1,235.60
98	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				-			
	15.23.2	For thickness of tiles above 25 mm and up to 40 mm	Sqm	113.35	35.00	3,967.25	10.59	123.94	4,337.99
99	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	sqm	54.65	50.00	2,732.50	5.11	59.76	2,987.85

100	15.57	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sqm	56.35	100.00	5,635.00	5.27	61.62	6,161.59
101	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.	Cum	263.95	75.00	19,796.25	24.67	288.62	21,646.21
Road Work									
102	16.47	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of ail dirt, scales, oil, grease and other foreign material etc. and lining out complete					-		
	16.47.2	Old work (One or more coats)	sqm	120.80	50.00	6,040.00	11.29	132.09	6,604.44
103	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	972.00	50.00	48,600.00	90.83	1,062.83	53,141.67
104	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to be more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	10 117.60	35.00	3,54,116.00	945.49	11,063.09	3,87,208.14
105	16.82	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc, disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge..	metre	39.35	150.00	5,902.50	3.68	43.03	6,454.09
106	16.83	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc, disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	sqm	131.75	50.00	6,587.50	12.31	144.06	7,203.10
107	16.84	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the Direction of Engineerin- charge. (Old CC paver blocks shall be supplied by the department free of cost).	sqm	402.95	50.00	20,147.50	37.66	440.61	22,030.28
108	16.85	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	metre	109.45	50.00	5,472.50	10.23	119.68	5,983.91
109	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.					-		
	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	Sqm	1 045.65	50.00	52,282.50	97.72	1,143.37	57,168.30
110	16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete	Sqm	883.15	50.00	44,157.50	82.53	965.68	48,284.02
ANITARY INSTALLATIONS									
111	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 :					-		
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	6 515.55	20.00	1,30,311.00	608.88	7,124.43	1,42,488.56
112	17.7	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 require:					-		
	17.7.1	White Vitreous China Wash basin size 630x450 mm withva pair of 15 mm C.P. brass pillar taps	each	2 648.85	20.00	52,977.00	247.54	2,896.39	57,927.70
113	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	each	1 683.35	20.00	33,667.00	157.31	1,840.66	36,813.18

114	17.11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required							
	17.11.1	Size 450x300x150 mm	each	5 020.85	20.00	1,00,417.00	469.20	5,490.05	1,09,800.97
115	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge	each	1 034.80	20.00	20,696.00	96.70	1,131.50	22,630.04
116	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	1 607.95	20.00	32,159.00	150.26	1,758.21	35,164.26
117	17.79	Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal	each	18 088.45	15.00	2,71,326.75	1,690.37	19,778.82	2,96,682.23
Water Supply									
118	18.7	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 Exposed on wall							
	18.7.1	15 mm nominal outer dia Pipes	metre	286.80	75.00	21,510.00	26.80	313.60	23,520.11
	18.7.2	20 mm nominal outer dia Pipes	metre	335.00	75.00	25,125.00	31.31	366.31	27,472.93
	18.7.3	25 mm nominal outer dia Pipes	metre	401.55	80.00	32,124.00	37.52	439.07	35,125.99
119	18.48	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 tank and the base support for tank	liter	11.00	5 000.00	55,000.00	1.03	12.03	60,139.75
Drainage									
120	19.4	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 2.70 kg as per standard design:							
	19.4.3	180x150 mm size P type							
	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2 802.15	10.00	28,021.50	261.86	3,064.01	30,640.11
121	19.11	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel 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, all complete as per standard design :							
122	19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD20 grade designation) 560 mm internal diameter conforming to IS. 12592, total weight of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :							
	19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	24 702.75	10.00	2,47,027.50	2,308.47	27,011.22	2,70,112.22
123	19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :							
	19.15.1	With 20x20 mm square bar	each	544.70	10.00	5,447.00	50.90	595.60	5,956.02
124	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality							
	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	each	1 437.65	10.00	14,376.50	134.35	1,572.00	15,719.98
125	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :							
	19.21.1	For pipes 100 to 250 mm diameter	Each	810.45	10.00	8,104.50	75.74	886.19	8,861.87

126	19.30.2	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), 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 1:5:10 (1 cement : 5 coarse sand (Zone III) : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	8 150.50	20.00	1,63,010.00	761.66	8,912.16	1,78,243.28
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Aluminium works

130	21.1	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) :							
	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg.	539.85	400.00	2,15,940.00	50.45	590.30	2,36,119.59
127	21.1.2	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)					-		
	21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron).	kg	643.45	400.00	2,57,380.00	60.13	703.58	2,81,432.16
132	21.2	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 paneling 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.					-		
	21.2.2	Pre-laminated particle board with decorative lamination on both sides	sqm	1 115.40	150.00	1,67,310.00	104.23	1,219.63	1,82,945.12
128	21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete	each	528.85	100.00	52,885.00	49.42	578.27	57,827.10
129	21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge					-		
	21.16.2	Powder coated minimum thickness 50 micron aluminium	each	109.30	100.00	10,930.00	10.21	119.51	11,951.41
130	21.17	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	kg	638.35	200.00	1,27,670.00	59.65	698.00	1,39,600.76
131	21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540- F & ISO 11600					-		
	21.19.3	Upto 20 mm depth and 20 mm width	metre	363.20	150.00	54,480.00	33.94	397.14	59,571.16
132	21.3	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):					-		
	21.3.2	With float glass panes of 5.50 mm thickness	Sqm	1 505.25	120.00	1,80,630.00	140.67	1,645.92	1,97,509.87

Waterproofing

133	22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	sqm	617.05	150.00	92,557.50	57.66	674.71	1,01,207.00
134	22.14	Grading roof for water proofing treatment with				-			
	22.14.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	cum	16 112.10	35.00	5,63,923.50	1,505.68	17,617.78	6,16,622.15
135	22.25	Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled & honeycombed surface of RCC underground structures like basement, water tanks, bridge deck etc. to ensure water tightness. The crystalline mortar shall conform to the EN 1504-3 having compressive strength Class R4 > 45 MPa and adhesive bond strength Class R3 > 1.5 MPa. The work shall be carried out all complete as per specification and the direction of the Engineer-In-Charge. The product performance shall carry guarantee for 10 years against any leakage				-			
	22.25.1	For sealing cracks and faulty construction joints, routed out/making U-shape groove size 25x25mm and then primed the area with integral crystalline slurry @0.05kg/ running metre and while the surface is tacky filled the groove upto surface with crystalline mortar @1.50kg/ running metre. Once crystalline mortar is touch dry then finally applied two coats of integral crystalline slurry @0.05kg/running metre per coat	Meter	547.70	100.00	54,770.00	51.18	598.88	59,888.26

Technologies and Materials

136	26.28	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge				-			
	26.28.1	75mm average thickness	sqm	378.00	100.00	37,800.00	35.32	413.32	41,332.41
137	26.31	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect				-			
		Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	sqm	285.20	100.00	28,520.00	26.65	311.85	31,185.19
138	26.35	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-In-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)				-			
	26.35.3	Epoxy injection grout in concrete/RCC work of approved make	kg	553.40	300.00	1,66,020.00	51.72	605.12	1,81,534.57
139	26.39	Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diametre (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge.	each	236.90	200.00	47,380.00	22.14	259.04	51,807.66
140	18.77	Cutting holes up to 15*15cm in RCC floors and roofs for passing drain pipe etc. and repairing hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1Cement :2 Coarse sand :4 Aggregate 20mm nominal size) including finishing complete so as to make it leak proof	Each	452.00	75.00	33,900.00	42.24	494.24	37,067.96
		DSR Amount							1 46 48 783.95

KPWDSR Items 2023-24:

							Final Rate	Final Amount
					-			
1	20.95	Removing the old paint from steel and / or other metal surface with hand scraping and making surface even including cost of labour, complete as per specifications.	sqm	121.00	1800.00	2,17,800.00	121.00	2,17,800.00

2	20.93	Cleaning Quadrangle chajjas including removing of dirt dust etc., using suitable soap powder, coconut broomstick, squeezers / wipers/ rubber brushes, coir brushes, plastic brushies, mugs, booster pumps with portable arrangement, hose pipe etc., complete excluding water charges including electrical charges and all safety measures.	sqm	15.00	1500.00	22,500.00		15.00	22,500.00
3	20.94	Cleaning sub surface drains including removing of dirt dust etc., using suitable soap powder , coconut broomstick, squeezers / wipers/ rubber brushes, coir brushes, plastic brushies, mugs, booster pumps with portable arrangement, hose pipe etc., complete	metre	14.00	2000.00	28,000.00		14.00	28,000.00
4	20.95	Cleaning surface drains including removing of dirt dust etc., using suitable soap powder , coconut broomstick, squeezers / wipers/ rubber brushes, coir brushes, plastic brushies, mugs, booster pumps with portable arrangement, hose pipe etc., complete.	metre	8.00	5000.00	40,000.00		8.00	40,000.00
5	KPWD 2024 addendum 12.99	Providing and fixing engineered wood door frame fabricated using wood polymer composite profiles (WPC) with density of 1.2+- 0.05/ CC , resistance to water, termite, fungal and UV, using 4 nos of L shape MS or plastic clamps at the corners of the frames to fix it firmly to form a rectangular shape door frame and provided with 6 nos of 260mm *25mm *5mm size Z shape MS flat holdfasts or 6 nos of 4inch length anchor fasteners screw for fixing the door frame in the wall, the materials and the process for manufacturing the door frame confirming to the specifications including all costs of labour, materials, fabrication, assembling, erection, incidental and unforeseen charges complete as per the direction of engineer in charge of the work (fixtures shall be paid for separately)							
	12.99.1	Size 55 mm *110mm	metre	672.00	150.00	1,00,800.00		672.00	1,00,800.00
	12.99.2	Size 55 mm *120mm	metre	771.00	150.00	1,15,650.00		771.00	1,15,650.00
	12.99.3	Size 75mm * 125mm	metre	1002.00	150.00	1,50,300.00		1,002.00	1,50,300.00
		Expansion Joint Treatment with Seal Tape							
6	15.22	Providing and laying with 1.0 mm thick FPO membrane to seal the expansion joint. The tape having mechanical properties like, Elongation >500%, Tensile Strength >12N/mm ² , Tear Strength >200N, Water tightness 400 kPa/72hrs confirming to DIN EN 1928-B. Ensure that apply Two part Epoxy Adhesive @ 1.4kg/m to get 1-2mm thick on the prepared surface before placing the tape and after placing seal with same epoxy adhesive which having Bond Strength with concrete 1.5N/mm ² , Compressive Strength @ 7 days, >45N/mm ² as per BS 6319 Part 2, Tensile Strength @ 7 days, >18N/mm ² as per BS 6319 Part 7, Shear Strength @ 7 days, >8N/mm ² as per BS 6319 Part 4, Flexural Strength @ 7 days, N/mm ² as per BS 6319 Part 3. The finished cost including surface preparation, filling foam backer rod, applying masking tape on both sides of the joint & polysulphide sealant filling on gap completely as per specification	Sqm	2039.00	500.00	10,19,500.00	2,039.00	10,19,500.00	
		Expansion Joints							
7	15.26	Providing waterproof treatment to Expansion joints using 2 coats of acrylic co-polymer elastomeric sealer and protector. The surface shall be prepared free of tar, dust, fungus, loose particles etc. The surface shall be applied with base coat of healer sealer crystallization liquid and then Acrylic co-polymer elastomeric sealer & protector, wetting agent and liquid (1:1:1:6) over the prepared surface. In addition to port fixing & injection grouting using acrylic polymer & waterproofing slurry, polyester fibrewool will be laid upon membrane by using epoxy Adhesive having Compressive Strength @ 7 days, 45N/mm ² as per BS 6319 Part 2. Over this 1 layer of TPO membrane will be laid as reinforcing material. One primer coat of Acrylic co-polymer elastomeric sealer & protector and a second coat of Acrylic co-polymer elastomeric sealer & protector liquid will be given over the primer coat - conforming to DIN EN 1928-B. The work shall be carried out as per the directions of the Engineer in charge	M	2000.00	500.00	10,00,000.00	2,000.00	10,00,000.00	
8	15.28	Providing and grouting tile joints, Cutting the tile joints with the help of cutting machine (width 3mm-15mm) and filling with of matching shade, using three component Epoxy based tile joint filler, non-sag waterproof grout, chemical and UV resistance, Pot life ≤ 60 mins, VOC (EPA 24) < 8gm/kg and water absorption after 7 days < 0.5g Joints shall be clean, dry, free from dirt, etc prior to application. Apply tile grout using a rubber trowel/grout floater, press firmly into joints, ensure complete fill and remove excess grout from surface using suitable method. The work shall be carried out as per the directions of the Engineer in charge							
		(For 300mm*300mm Tiles)	Sqm	850.00	600.00	5,10,000.00		850.00	5,10,000.00

9	9.1	Providing, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-2016 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials with electrofusion welding, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bedns, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. complete. NOTE: Upto 110mm dia Coil shall be used. For :HDPE PE 80 PN 6.0						
	9.1.2	HDPE Grade PE80-PN6.0, 75mm dia	Metre	245.00	2800.00	6,86,000.00		245.00
	9.1.4	HDPE Grade PE80-PN6.0,110mm dia	Metre	469.00	500.00	2,34,500.00		469.00
		Sub Total (Items based on KSR)						41,25,050.00
		Total						41,25,050.00
		Add Area Weightage of 5%						2,06,252.50
		Sub Total						43,31,302.50
		Add GST 18%						7,79,634.45
		Sub Total -2						51,10,936.95
		Items based on Rate Analysis						
1	AR 1	Cutting the branches of trees extended over the terrace having girth ranging from 0.10m 0.45m to ensure complete clearance so as the leaves, vegetation etc., do not fall on the roof and disposal of the same within 50 metres lead as directed by the Engineer-in-charge.	each job	196.00	200.00	39,200.00		196.00
2	MR	Providing and fixing Building signage boards with 3mm Aluminium composite panel (ACP) board printed with UV print on vinyl	sqm	3815.00	150.00	5,72,250.00		3,815.00
3	MR	Supply and installation of froasted glass sticker to glasses of Window and Door shutters complete to make it translucent as per direction of Engineer In Charge	sqm	616.00	300.00	1,84,800.00		616.00
4	MR	supply and fixing to position the decorative curtains design and colour as approved by the ESIC/HSCL	sqm	750.00	500.00	3,75,000.00		750.00
5	MR	Providing and fixing floor carpet with approved design quality and colour as per the instruction of engineer in charge	Sqm	700.00	250.00	1,75,000.00		700.00
6	MR	Providing and fixing 3mm Clear Compact Polycarbonate sheet Over existing MS Structure 1. Solid Clear Sheet 3 mm of approved Color shade 2.Fischer metal Fasteners for Fixing Sheet 3. Fischer Metal Washers for Fixing The Sheet 4. Aluminium Channels With Rubber Gaskets The work including cost of all materials, labour charges and required machinery, welding, grinding and erection equipments, etc., with all lead, transportation, loading and unloading and all other incidental charges etc. complete as per specification and directions of the Engineer-in-charge of the work.	Sqm	2127.00	200.00	4,25,400.00		2,127.00
8	MR	Free flow Epoxy Pointing for toilet joint and junctions: cut opening the tiles joint, Nahani Trap, Door Frame, Junction of Wall and tiles removing dust and loose particles cleaning with brush and air blower and fixing masking tape on both edges of joint, Applying free flow epoxy, cleaning, finishing, packing with modifire motor gaps of traps, Door frames etc complete. The epoxy material supplied from Forsrock, Sika, J K Epoxy or any other approved quality, as per direction of ESIC and Manufacturers specification	Rmt	145.00	4000.00	5,80,000.00		145.00
9	MR	Repair of furnitures by welding to the specific areas of furnitures like tables,Chairs, Stools etc. making them useful complete as per user department and as per the direction of Engineer in Charge						
		Stool	Each	80	200.00	16,000.00		80.00
		Tables	Each	80	200.00	16,000.00		80.00
		Cot	Each	100	200.00	20,000.00		100.00
		Wheel Chairs	Each	80	200.00	16,000.00		80.00
		Sub Total -3						23,80,850.00
		Abstract for Supplying of Civil Items						
1		Total DSR Items (Sub Total 1)						1,46,48,783.95

		Applying the Correction Factor of 0.973						1,42,53,266.79
2		Total KPWD SR (Sub Total 2)						51,10,936.95
		Total Rate Analysis Items (Sub Total 3)						23,80,850.00
3		Grand Total						2,17,45,053.74