

### DETAILED ESTIMATE

Jal Jeevan Mission (JJM)-JJM PROVIDING FHTCS TO ALL HOUSEHOLD IN ERATTAYAR  
AND KAMAKSHI (PART) PANCHAYATHS IN IDUKKI DISTRICTS-Construction of new 5  
MLD Water Treatment Plant-Structural Design Work

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
1	Construction of Aerator						
1.001	2.9.3						
	Excavation work 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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Hard rock (blasting prohibited)						
	excavation for footing						
	central column	1	2.500	2.500	1.400		8.750
	<b>Total</b>						<b>8.750</b>
	<b>Total Quantity in cum</b>						<b>8.750</b>
1.002	OD69995/2022-2023						
	:DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete						
	dowell bar						
	central column	8					8.000
	<b>Total</b>						<b>8.000</b>
	<b>Total Quantity in no</b>						<b>8.000</b>
1.003	4.1.2						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)						
	levelling course						
	central column	1	2.500	2.500	0.300		1.875
	<b>Total</b>						<b>1.875</b>
	<b>Total Quantity in cum</b>						<b>1.875</b>
1.004	5.33.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level							
	column footing							
	central column step 1	1	2.400	2.400	0.400		2.304	
	central column step 2	1	2.300	2.300	0.300		1.587	
	central column step 3	1	$3.14 \times (0.4225 - 0.1225) / 4$		0.400		0.094	
	<b>Total</b>							<b>3.985</b>
	<b>Total Quantity in cum</b>							<b>3.985</b>
1.005	5.33.2							
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level							
	Central column	1	$3.14 \times (0.4225 - 0.1225) / 4$		7.000		1.649	
	Top Tray	1	$3.14 \times (1.8225 - 0.4225) / 4$			0.150000	0.165	
	Tray 2	1	$3.14 \times (3.8 - 0.4225) / 4$			0.150000	0.398	
	Tray 3	1	$3.14 \times (6.50 - 0.4225) / 4$			0.150000	0.716	
	Collection tray	1	$3.14 \times (16 - 0.4225) / 4$			0.150000	1.834	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Side wall of collection tray (outer)	1	3.14*4	0.100	0.300		0.377	
	<b>Total</b>						<b>5.139</b>	
	<b>Total Quantity in cum</b>							<b>5.139</b>
1.006	5.34.1							
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).							
	Item no. 4&5	1	3.985+5.139				9.124	
	<b>Total</b>						<b>9.124</b>	
	<b>Total Quantity in cum</b>							<b>9.124</b>
1.007	5.9.1							
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete							
	column bed	1	2.5*4		0.300		3.000	
	column step 1	1	2.4*4		0.400		3.840	
	column step 2	1	2.3*4		0.300		2.760	
	column step 3	1	3.14*.65		0.400		0.816	
	<b>Total</b>						<b>10.416</b>	
	<b>Total Quantity in sqm</b>							<b>10.416</b>
1.008	5.9.6							
	Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts							
	central column							
		1	3.14*0.65		6.400		13.062	
	<b>Total</b>						<b>13.062</b>	
	<b>Total Quantity in sqm</b>							<b>13.062</b>
1.009	5.9.16.1							
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide							
	Edges of trays							
	Top Tray	1	3.14*1.35				4.239	
	Tray 2	1	3.14*1.95				6.123	
	Tray 3	1	3.14*2.55				8.007	
	<b>Total</b>						<b>18.369</b>	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
<b>Total Quantity in metre</b>							<b>18.369</b>
1.010	5.9.2	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.					
Side Wall Collection Trays & Channel							
	Collection tray Outer Side wall (outer side)	1	3.14*4.2	0.450			5.935
	Collection tray Inside Side	1	3.14*4	0.300			3.768
<b>Total</b>							<b>9.703</b>
<b>Total Quantity in sqm</b>							<b>9.703</b>
1.011	5.9.3	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform					
	Top Tray	1	3.14*(1.8 - 225- 0.4225)/4				1.099
	Tray 2	1	3.14*(3.8 - 0- 0.4225)/4				2.651
	Tray 3	1	3.14*(6.5 - 0.4225)/4				4.771
	Collection Tray	1	3.14*(16- 0.4225)/4				12.228
<b>Total</b>							<b>20.749</b>
<b>Total Quantity in sqm</b>							<b>20.749</b>
1.012	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more					
		1	3.985+5. 139			120.00 0000	1094.880
<b>Total</b>							<b>1094.880</b>
<b>Total Quantity in kilogram</b>							<b>1094.880</b>
1.013	13.1.1	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)					

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Top tray 1	2	3.14*(1.8 225- 0.4225)/4				2.198
	tray 2	2	3.14*(3.8 - 0.4225)/4				5.303
	tray 3	2	3.14*(6.5 - 0.4225)/4				9.542
	Collection tray	2	3.14*(16- 0.4225)/4				24.457
	central column	1	3.14*.65		6.400		13.062
	Top side of tray & Channel	1	3.14*5.5* 5.5/4				23.746
	Top tray 1 edge	1	3.14*1.35		0.150		0.636
	Tray 2 edge	1	3.14*1.95		0.150		0.918
	Tray 3 edge	1	3.14*2.55		0.150		1.201
	collection Tray edge	1	3.14*4		0.150		1.884
	<b>Total</b>						<b>82.947</b>
						<b>Total Quantity in sqm</b>	<b>82.947</b>
1.014	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Paint						
	Top tray 1	2	3.14*(1.8 225- 0.4225)/4				2.198
	tray 2	2	3.14*(3.8 - 0.4225)/4				5.303
	tray 3	2	3.14*(6.5 - 0.4225)/4				9.542
	Collection tray	2	3.14*(16- 0.4225)/4				24.457
	central column	1	3.14*.65		6.400		13.062
	Top side of tray & Channel	1	3.14*5.5* 5.5/4				23.746
	Top tray 1 edge	1	3.14*1.35		0.150		0.636
	Tray 2 edge	1	3.14*1.95		0.150		0.918
	Tray 3 edge	1	3.14*2.55		0.150		1.201

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	collection Tray edge	1	3.14*4		0.150		1.884	
	<b>Total</b>						<b>82.947</b>	
	<b>Total Quantity in sqm</b>							<b>82.947</b>
1.015	13.60.1							
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work							
	Paint							
	Top tray 1	2	3.14*(1.8 225- 0.4225)/4				2.198	
	tray 2	2	3.14*(3.8 - 0.4225)/4				5.303	
	tray 3	2	3.14*(6.5 - 0.4225)/4				9.542	
	Collection tray	2	3.14*(16- 0.4225)/4				24.457	
	central column	1	3.14*.65		6.400		13.062	
	Top side of tray & Channel	1	3.14*5.5* 5.5/4				23.746	
	Top tray 1 edge	1	3.14*1.35		0.150		0.636	
	Tray 2 edge	1	3.14*1.95		0.150		0.918	
	Tray 3 edge	1	3.14*2.55		0.150		1.201	
	collection Tray edge	1	3.14*4		0.150		1.884	
	<b>Total</b>						<b>82.947</b>	
	<b>Total Quantity in sqm</b>							<b>82.947</b>
1.016	22.23.2							

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage &amp; water treatment plant, tunnels  / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. 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. For horizontal surface one coat @ 1.10 kg per sqm.</p>						
	<b>Waterproofing</b>						
	Top tray 1	2	3.14*(1.8 225- 0.4225)/4				2.198
	tray 2	2	3.14*(3.8 - 0.4225)/4				5.303
	tray 3	2	3.14*(6.5 - 0.4225)/4				9.542
	Collection tray	2	3.14*(16- 0.4225)/4				24.457
	Top side of tray & Channel	1	3.14*5.5* 5.5/4				23.746
	Top tray 1 edge	1	3.14*1.35		0.150		0.636
	<b>Total</b>						<b>65.882</b>
	<b>Total Quantity in sqm</b>						<b>65.882</b>
2	<b>Raw water channel</b>						
2.001	2.9.3						
	Excavation work 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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Hard rock (blasting prohibited)						
	excavation						
	Column	7	1.200	1.200	1.000		10.080
	<b>Total</b>						<b>10.080</b>
	<b>Total Quantity in cum</b>						<b>10.080</b>
2.002	OD70542/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete						
	16mm dowell bar						
		28					28.000
	<b>Total</b>						<b>28.000</b>
	<b>Total Quantity in no</b>						<b>28.000</b>
2.003	4.1.2						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)						
	levelling course						
		7	1.200	1.200	0.500		5.040
	<b>Total</b>						<b>5.040</b>
	<b>Total Quantity in cum</b>						<b>5.040</b>
2.004	5.33.1						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level						
	.						
	column footing step 1	7	1.000	1.000	0.250		1.750
	column footing step 2	7	0.900	0.900	0.250		1.418
	<b>Total</b>						<b>3.168</b>
	<b>Total Quantity in cum</b>						<b>3.168</b>
2.005	5.33.2						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level						
	.						



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	column 1	1	0.300	0.300	3.000		0.270
	column 2	1	0.300	0.300	2.900		0.261
	column 3	1	0.300	0.300	2.800		0.252
	column 4	1	0.300	0.300	2.700		0.243
	column 5	1	0.300	0.300	2.600		0.234
	column 6	1	0.300	0.300	2.500		0.225
	column 7	1	0.300	0.300	2.400		0.216
	beam	1	26.500	0.300	0.300		2.385
	top & bottom slab	2	26.500	1.000	0.100		5.300
	side wall	2	26.500	0.100	0.300		1.590
	<b>Total</b>						<b>10.976</b>
						<b>Total Quantity in cum</b>	<b>10.976</b>
2.006	5.34.1 Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).						
	Item no. 4&5	1	3.168+11.165				14.333
	<b>Total</b>						<b>14.333</b>
						<b>Total Quantity in cum</b>	<b>14.333</b>
2.007	5.9.2 Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.						
	Side Wall -outer side	2	26.500		0.500		26.500
	Side Wall -inner side	2	26.500		0.300		15.900
	<b>Total</b>						<b>42.400</b>
						<b>Total Quantity in sqm</b>	<b>42.400</b>
2.008	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform						
	Top Slab Bottom side	1	26.500	0.800			21.200

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Bottom Slab Bottom side	1	26.500	1.000			26.500	
	<b>Total</b>						<b>47.700</b>	
	<b>Total Quantity in sqm</b>							<b>47.700</b>
2.009	5.9.5							
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	Beam	1	26.500		0.900		23.850	
	<b>Total</b>						<b>23.850</b>	
	<b>Total Quantity in sqm</b>							<b>23.850</b>
2.010	5.9.6							
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	Column1	7	1.200		3.000		25.200	
	Column2	7	1.200		2.900		24.360	
	Column3	7	1.200		2.800		23.520	
	Column4	7	1.200		2.700		22.680	
	Column5	7	1.200		2.600		21.840	
	Column6	7	1.200		2.500		21.000	
	Column7	7	1.200		2.400		20.160	
	<b>Total</b>						<b>158.760</b>	
	<b>Total Quantity in sqm</b>							<b>158.760</b>
2.011	5.22.6							
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more							
	@100kg/m3	1	15.580			100.00 0000	1558.000	
	<b>Total</b>						<b>1558.000</b>	
	<b>Total Quantity in kilogram</b>							<b>1558.000</b>
2.012	13.1.1							
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)							
	plastering cm 1:3 12mm thick							
	Column1	7	1.200		3.000		25.200	
	Column2	7	1.200		2.900		24.360	
	Column3	7	1.200		2.800		23.520	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Column4	7	1.200		2.700		22.680
	Column5	7	1.200		2.600		21.840
	Column6	7	1.200		2.500		21.000
	Column7	7	1.200		2.400		20.160
	Beam	1	27.900		0.300		8.370
	Beam - Sides	2	30.000		0.300		18.000
	Side wall -outside	2	30.000		0.500		30.000
	Side wall -inside	2	30.000		0.300		18.000
	Slab - outside - bottom and top	1	30.000		1.000		30.000
	Slab -inside - bottom and top	1	30.000		0.800		24.000
	<b>Total</b>						<b>287.130</b>
						<b>Total Quantity in sqm</b>	<b>287.130</b>
2.013	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
		1	153.570	3.900			598.923
	<b>Total</b>						<b>598.923</b>
						<b>Total Quantity in sqm</b>	<b>598.923</b>
2.014	13.60.1						
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
		1	153.570				153.570
	<b>Total</b>						<b>153.570</b>
						<b>Total Quantity in sqm</b>	<b>153.570</b>
2.015	22.23.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage &amp; water treatment plant, tunnels  / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. 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. For vertical surface two coats @0.70 kg per sqm</p>						
	Side wall	2	26.500		0.300		15.900
	<b>Total</b>						<b>15.900</b>
	<b>Total Quantity in sqm</b>						<b>15.900</b>
2.016	22.23.2						
	<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage &amp; water treatment plant, tunnels  / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. 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. For horizontal surface one coat @1.10 kg per sqm.</p>						
	Bottom slab	1	26.500	0.800			21.200
	<b>Total</b>						<b>21.200</b>
	<b>Total Quantity in sqm</b>						<b>21.200</b>
2.017	10.26.3						
	<p>Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. pipes</p>						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Walkway	1	570.000				570.000
	<b>Total</b>						<b>570.000</b>
						<b>Total Quantity in kg</b>	<b>570.000</b>
3	Flash Mixer						
3.001	2.9.3						
	Excavation work 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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Hard rock (blasting prohibited)						
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	FOOTING	1	3.14*1.9		1.200		7.159
	<b>Total</b>						<b>7.159</b>
						<b>Total Quantity in cum</b>	<b>7.159</b>
3.002	OD71762/2022-2023						
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete						
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	16mm	1	20.000				20.000
	<b>Total</b>						<b>20.000</b>
						<b>Total Quantity in no</b>	<b>20.000</b>
3.003	4.1.3						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)						
	levelling course						
		1	3.140/1.9		1.600	0.2000 00	0.529
	<b>Total</b>						<b>0.529</b>
						<b>Total Quantity in cum</b>	<b>0.529</b>
3.004	5.33.1						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level						
	.						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	footing	1	3.140/4	1.700	1.700	0.9000 00	2.042
	deduction for pipe 350 mm dia.	-1	3.140/4	0.350	0.350	0.9000 00	-0.087
	<b>Total</b>						<b>1.955</b>
						<b>Total Quantity in cum</b>	<b>1.955</b>
3.005	5.33.2						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level						
	Side wall	1	3.140*(2.25-1.44)/4		3.900		2.480
	Walkway	1	3.140*(8.41-2.25)/4		0.150		0.725
	<b>Total</b>						<b>3.205</b>
						<b>Total Quantity in cum</b>	<b>3.205</b>
3.006	5.34.1						
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).						
	Item No. 4&5	1	1.955+3.205				5.160
	<b>Total</b>						<b>5.160</b>
						<b>Total Quantity in cum</b>	<b>5.160</b>
3.007	5.9.2						
	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.						
	Side wall outer	1	3.14*1.5		3.900		18.369
	Side wall inner	1	3.14*1.2		3.900		14.695
	<b>Total</b>						<b>33.064</b>
						<b>Total Quantity in sqm</b>	<b>33.064</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
3.008	5.9.3						
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform						
	Walk way bottom	1	3.14*2.9		0.700		6.374
	<b>Total</b>						<b>6.374</b>
	<b>Total Quantity in sqm</b>						<b>6.374</b>
3.009	5.9.16.1						
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide						
	walkway side	1	3.14*2.9		0.150		1.366
	<b>Total</b>						<b>1.366</b>
	<b>Total Quantity in metre</b>						<b>1.366</b>
3.010	5.22.6						
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more						
	@70kg/m3	1	5.160			70.000 000	361.200
	<b>Total</b>						<b>361.200</b>
	<b>Total Quantity in kilogram</b>						<b>361.200</b>
3.011	13.1.1						
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand) Plastering (cm 1:3 12 mm thick)						
	Floor	1	3.140/4	1.200	1.200		1.130
	Side wall inside	1	3.14*1.2				3.768
	Side wall outer	1	3.140*1.5				4.710
	walkway	2	3.140/4	(8.41- 2.56)			9.185
	<b>Total</b>						<b>18.793</b>
	<b>Total Quantity in sqm</b>						<b>18.793</b>
3.012	13.60.1						
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	painting inside	1	3.140	2.600			8.164
	<b>Total</b>						<b>8.164</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
<b>Total Quantity in sqm</b>							<b>8.164</b>
3.013	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer					
		1	3.140	2.600			8.164
<b>Total</b>							<b>8.164</b>
<b>Total Quantity in sqm</b>							<b>8.164</b>
3.014	10.26.3	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer.G.I. pipes					
	Walkway	1	250.000				250.000
<b>Total</b>							<b>250.000</b>
<b>Total Quantity in kg</b>							<b>250.000</b>
4	Clariflocculator						
4.001	2.9.3	Excavation work 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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Hard rock (blasting prohibited)					
	Earth Work						
	Foundation	1	3.200	3.000	2.200		21.120
	Base slab	1	17*17		1.050	0.7850 00	238.208
<b>Total</b>							<b>259.328</b>
<b>Total Quantity in cum</b>							<b>259.328</b>
4.002	OD77126/2022-2023	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2m long (1m in rock and 1m in concrete ) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout( 0.10kg/each) etc complete					
	For foundation	8					8.000
<b>Total</b>							<b>8.000</b>
<b>Total Quantity in no</b>							<b>8.000</b>



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
4.003	4.1.3						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)						
	Foundation (CC 1:3:6, 40 mm metal)	1	3.140/4	1.000	16.000	0.2000 00	2.512
	<b>Total</b>						<b>2.512</b>
	<b>P C C</b>						
	Foundation	1	16.9*16.9		0.100	0.7850 00	22.420
	<b>Total</b>						<b>22.420</b>
	<b>Total Quantity in cum</b>						<b>24.932</b>
4.004	5.33.1						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level						
	<b>RCC</b>						
	Foundation	1	1.650	1.650	0.300		0.817
	column	1	0.750		2.000	0.7850 00	1.178
	Base slab	1	16.1*16.1		0.200	0.7850 00	40.696
	Base slab (Vertical part)	1	1.960		0.700	0.7850 00	1.077
	<b>Total</b>						<b>43.768</b>
	<b>Total Quantity in cum</b>						<b>43.768</b>
4.005	5.33.2						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	R C C						
	Outer side wall (17mm)	1	11.000		3.750	0.7850 00	32.381
	Walk way slab (17mm)	1	51.270		0.170	0.7850 00	6.842
	Column	1	0.750		4.500	0.7850 00	2.649
	Outlet (10mm)	1	31.000		0.100	0.7850 00	2.434
	Outlet (10mm)	1	3.000		0.600	0.7850 00	1.413
	Flocculation wall (12mm)	1	3.320		2.400	0.7850 00	6.255
	Flocculation wall (20mm)	1	3.900		1.600	0.7850 00	4.898
	Flocculation wall base (Opening)	-0.5	3.900		1.200	0.7850 00	-1.837
	Launder	2	0.700	15.700	0.100		2.198
	Launder	2	15.700	0.100	0.700		2.198
	<b>Total</b>						<b>59.431</b>
	<b>Total Quantity in cum</b>						<b>59.431</b>
4.006	5.34.1 <p>Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).</p> <p>Extra charges</p>						
	Item 4	1	43.768				43.768
	Item 5	1	59.431				59.431
	<b>Total</b>						<b>103.199</b>
	<b>Total Quantity in cum</b>						<b>103.199</b>
4.007	5.9.2 <p>Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.</p> <p>Centering and Shuttering</p>						
	pcc	1	7.000		0.100		0.700
	foundation	1	6.600		0.300		1.980
	column (outer)	6.28	0.500		6.500		20.410
	column	6.28	0.250		6.500		10.205
	baseslab	6.28	8.100		0.100		5.087
	outer wall	6.28	10.980		3.750		258.579

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	outer wall	6.28	11.500		3.750		270.825
	walk way	6.28	11.280		0.700		49.587
	side wall outlet	6.28	10.430		0.500		32.750
	side wall outlet	6.28	10.530		0.400		26.451
	Flocculator (bottom)	6.28	4.600		1.600		46.221
	Flocculator (bottom)	6.28	4.400		1.600		44.211
	Flocculator (top)	6.28	4.580		2.500		71.906
	Flocculator (top)	6.28	4.450		2.500		69.865
	Flocculator (bottom)	-6.28	4.400		1.200	0.5000 00	-16.579
	Flocculator (bottom)	-6.28	4.600		1.200	0.5000 00	-17.333
	<b>Total</b>						<b>874.865</b>
						<b>Total Quantity in sqm</b>	<b>874.865</b>
4.008	5.22.6						
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more						
	Steel 100kg/cum						
	Item 4	1	43.768			100.00 0000	4376.800
	Item 5	1	59.431			100.00 0000	5943.100
	<b>Total</b>						<b>10319.90 0</b>
						<b>Total Quantity in kilogram</b>	<b>10319.90 0</b>
4.009	13.1.1						
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)						
	12 mm plaster						
	column (outer)	6.28	0.500		6.500		20.410
	baseslab	6.28	8.100		0.100		5.087
	outer wall	6.28	10.980		3.750		258.579
	outer wall	6.28	11.500		3.750		270.825
	walk way	6.28	11.280		0.700		49.587
	side wall outlet	6.28	10.430		0.500		32.750
	side wall outlet	6.28	10.530		0.400		26.451
	Flocculator (bottom)	6.28	4.600		1.600		46.221

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Flocculator (bottom)	6.28	4.400		1.600		44.211
	Flocculator (top)	6.28	4.580		2.500		71.906
	Flocculator (top)	6.28	4.450		2.500		69.865
	Flocculator (bottom)	-6.28	4.400		1.200	0.5000 00	-16.579
	Flocculator (bottom)	-6.28	4.600		1.200	0.5000 00	-17.333
	Lauder	4	0.700	15.700	0.100		4.396
	Lauder	4	15.700	0.100	0.600		3.768
	<b>Total</b>						<b>870.144</b>
						<b>Total Quantity in sqm</b>	<b>870.144</b>
4.010	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Paint						
	column (outer)	6.28	0.500		6.500		20.410
	baseslab	6.28	8.100		0.100		5.087
	outer wall	6.28	10.980		3.750		258.579
	outer wall	6.28	11.500		3.750		270.825
	walk way	6.28	11.280		0.700		49.587
	side wall outlet	6.28	10.430		0.500		32.750
	side wall outlet	6.28	10.530		0.400		26.451
	Flocculator (bottom)	6.28	4.600		1.600		46.221
	Flocculator (bottom)	6.28	4.400		1.600		44.211
	Flocculator (top)	6.28	4.580		2.500		71.906
	Flocculator (top)	6.28	4.450		2.500		69.865
	Flocculator (bottom)	-6.28	4.400		1.200	0.5000 00	-16.579
	Flocculator (bottom)	-6.28	4.600		1.200	0.5000 00	-17.333
	<b>Total</b>						<b>861.980</b>
						<b>Total Quantity in sqm</b>	<b>861.980</b>
4.011	13.83.2						
	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile including applying additional coats wherever required to achieve even shade and colour.Two coats						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
		1	3.140	15.500	3.600		175.212	
	<b>Total</b>						<b>175.212</b>	
		<b>Total Quantity in sqm</b>						<b>175.212</b>
4.012	10.26.3							
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.G.I. pipes							
		1	1500.000				1500.000	
	<b>Total</b>						<b>1500.000</b>	
		<b>Total Quantity in kg</b>						<b>1500.000</b>
4.013	100.98.121							
	Supply of DI K9 Pipe Conforming to IS 8329/2000, 400mm Dia.							
		1	50.000				50.000	
	<b>Total</b>						<b>50.000</b>	
	400 mm pipe							
	pipe	1	50.000				50.000	
	<b>Total</b>						<b>50.000</b>	
		<b>Total Quantity in metre</b>						<b>100.000</b>
4.014	100.14.7							
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 400mm diameter Ductile Iron Class K-9 Pipes.							
	Pipe							
		1	50.000				50.000	
	<b>Total</b>						<b>50.000</b>	
		1	50.000				50.000	
	<b>Total</b>						<b>50.000</b>	
		<b>Total Quantity in metre</b>						<b>100.000</b>
4.015	100.98.465							
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 400mm.							
	Clariflocculator - Scour	1					1.000	
	Raw water channel - Scour	1					1.000	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>2.000</b>
							<b>Total Quantity in no</b> <b>2.000</b>
4.016	18.68.1						
	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia						
	.						
	400mm x 90 Bend	4				1.1500 00	4.600
	400mmx45 bend	2				0.8500 00	1.700
	400mmx22.5 bend	2				0.7000 00	1.400
	400mm 11.25 bend	2				0.5800 00	1.160
	<b>Total</b>						<b>8.860</b>
							<b>Total Quantity in quintal</b> <b>8.860</b>
4.017	18.70.7						
	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:400 mm dia pipes						
	.						
		12					12.000
	<b>Total</b>						<b>12.000</b>
	joint						
		12					12.000
	<b>Total</b>						<b>12.000</b>
							<b>Total Quantity in joint</b> <b>24.000</b>
4.018	18.83.9						
	Labour for cutting C.I. pipe with steel saw.400 mm diameter C.I. pipe						
	.						
		6					6.000
	<b>Total</b>						<b>6.000</b>
							<b>Total Quantity in Each Cut</b> <b>6.000</b>
4.019	100.31.1.9						
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 400mm diameter, Class I.						
	.						
	Clariflocculator - Scour	1					1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Raw water channel - Scour	1					1.000	
	<b>Total</b>						<b>2.000</b>	
	<b>Total Quantity in no</b>							<b>2.000</b>
4.020	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.							
	structural steel work	1	8730.000				8730.000	
	<b>Total</b>						<b>8730.000</b>	
	<b>Total Quantity in kg</b>							<b>8730.000</b>
4.021	22.23.1							
	<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage &amp; water treatment plant, tunnels</p> <p>/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. 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. For vertical surface two coats @0.70 kg per sqm</p>							
	waterproofing							
	outer wall	6.28	10.980			3.750	258.579	
	outer wall	6.28	11.500			3.750	270.825	
	side wall outlet	6.28	10.430			0.500	32.750	
	side wall outlet	6.28	10.530			0.400	26.451	
	Flocculator (bottom)	6.28	4.600			1.600	46.221	
	Flocculator (bottom)	6.28	4.400			1.600	44.211	
	Flocculator (top)	6.28	4.580			2.500	71.906	
	Flocculator (top)	6.28	4.450			2.500	69.865	
	Flocculator (bottom)	-6.28	4.400			1.200	0.5000 00	
							-16.579	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Flocculator (bottom)	-6.28	4.600		1.200	0.5000 00	-17.333
	<b>Total</b>						<b>786.896</b>
						<b>Total Quantity in sqm</b>	<b>786.896</b>
4.022	22.23.2						
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. 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. For horizontal surface one coat @ 1.10 kg per sqm.						
	Waterproofing						
	baselab	6.28	8.100		0.100		5.087
	<b>Total</b>						<b>5.087</b>
						<b>Total Quantity in sqm</b>	<b>5.087</b>
5	Filter House, back wash water tank						
5.001	2.6.1						
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil						
	Column(0.3*0.3)	5	1.400	1.400	3.550		34.790
		9	1.400	1.400	1.500		26.460
	Column(0.6*0.3)	9	1.700	1.400	1.400		29.988
	<b>Total</b>						<b>91.238</b>
						<b>Total Quantity in cum</b>	<b>91.238</b>
5.002	2.26.1						
	Extra for every additional lift 1.5 m or part there of in excavation / banking excavated or stacked materials. All kinds of soil						



SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Column(0.3*0.3) from 1.5 m to 3.00	5	1.400	1.400	1.500		14.700	
	Column(0.3*0.3) from 3.00 m to 3.55 m	5	1.400	1.400	0.550		5.390	
	<b>Total</b>						<b>20.090</b>	
	<b>Total Quantity in cum</b>							<b>20.090</b>
5.003	OD72096/2022-2023							
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete							
	Column(0.3*0.3)	56					56.000	
	Column(0.6*0.3)	54					54.000	
	<b>Total</b>						<b>110.000</b>	
	<b>Total Quantity in no</b>							<b>110.000</b>
5.004	4.1.2							
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)							
	levelling course							
	Column(0.3*0.3)	14	1.200	1.200	0.300		6.048	
	Column(0.6*0.3)	9	1.500	1.200	0.400		6.480	
	<b>Total</b>						<b>12.528</b>	
	<b>Total Quantity in cum</b>							<b>12.528</b>
5.005	5.33.1							
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level							
	column footing(0.3*0.3)	14	1.000	1.000	0.200		2.800	
		14	1.750		0.40/3		3.267	
		9	0.300	0.300	0.750		0.608	
		5	0.300	0.300	2.800		1.260	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	column footing(0.6*0.3)	9	1.300	1.000	0.200		2.340
		9	2.420		0.50/3		3.630
		9	0.600	0.300	0.750		1.215
	Plinth Beam	2	3.830	0.300	0.450		1.034
		2	5.320	0.300	0.450		1.436
		2	4.830	0.300	0.450		1.304
		3	2.200	0.300	0.450		0.891
		3	2.120	0.300	0.450		0.859
		4	3.420	0.300	0.450		1.847
		6	4.020	0.300	0.450		3.256
		3	5.240	0.300	0.450		2.122
		4	5.620	0.300	0.450		3.035
		3	3.940	0.300	0.450		1.596
		1	2.270	0.300	0.450		0.306
		1	2.350	0.300	0.450		0.317
	<b>Total</b>						<b>33.123</b>
						<b>Total Quantity in cum</b>	<b>33.123</b>
5.006	5.33.2						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level						
	Column(0.3*0.3) GF	14	0.300	0.300	3.000		3.780
	Column(0.6*0.3) GF	9	0.600	0.300	3.000		4.860
	LINTEL GF	1	117.700	0.200	0.150		3.531
	Sunshade GF	1	80.140	0.600	(0.10+0.05)/2		3.606
	Beams GF	2	3.830	0.300	0.300		0.689
		2	5.320	0.300	0.350		1.117
		2	4.830	0.300	0.300		0.869
		3	2.200	0.300	0.300		0.594
		3	2.120	0.300	0.300		0.572

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		4	3.420	0.300	0.300		1.231
		7	4.020	0.300	0.300		2.533
		4	5.240	0.300	0.350		2.201
		4	5.620	0.300	0.350		2.360
		3	3.940	0.300	0.300		1.064
		1	2.270	0.300	0.300		0.204
		1	2.350	0.300	0.300		0.212
	Staircase	24	1.200	0.300	0.167/2		0.721
	Staircase Landing	1	1.200	1.200	0.150		0.216
	Staircase slab	1	4.120	1.200	0.150		0.742
	Staircase slab	1	3.450	1.200	0.150		0.621
	Roof Slab GF	1	16.580	13.760	0.150		34.221
	Porch and chlorine room slab	1	12.720	4.420	0.150		8.433
	Deduction for GF (Top of filter bed)	-2	3.600	2.300	0.150		-2.484
	Deduction (Lobby)	-1	8.400	4.100	0.150		-5.166
	Deduction (Openings)	-2	4.450	2.150	0.150		-2.870
	Column(0.3*0.3) FF	11	0.300	0.300	3.750		3.713
	Column(0.6*0.3) FF	9	0.600	0.300	3.750		6.075
	Lintel FF	1	100.300	0.200	0.150		3.009
	Sunshade FF	1	63.500	0.600	(0.10+0.05)/2		2.858
	Beams FF	2	3.830	0.300	0.300		0.689
		2	5.320	0.300	0.350		1.117
		2	4.830	0.300	0.300		0.869
		3	2.200	0.300	0.300		0.594
		3	2.120	0.300	0.300		0.572
		4	3.420	0.300	0.300		1.231
		4	4.020	0.300	0.300		1.447
		3	5.240	0.300	0.350		1.651
		3	5.620	0.300	0.350		1.770
		3	3.940	0.300	0.300		1.064
		1	2.270	0.300	0.300		0.204

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		1	2.350	0.300	0.300		0.212
	ROOF SLAB FF	1	16.580	13.760	0.150		34.221
	LAB SLAB	1	8.500	1.000	0.100		0.850
	kitchen sink	-1	0.650	0.100	0.450		-0.029
	Filter bed RCC wall	2	5.320	0.200	3.000		6.384
	Filter bed RCC wall	2	4.830	0.200	3.000		5.796
	Filter bed RCC wall	3	2.200	0.200	3.000		3.960
	Filter bed RCC wall	3	2.120	0.200	3.000		3.816
	Filter bed floor	2	10.800	4.320	0.150		13.997
	ww trough	8	4.400	0.100	0.400		1.408
	ww trough	4	4.400	0.600	0.100		1.056
	manifold	4	4.620	0.150	0.700		1.940
		2	4.620	0.550	0.150		0.762
	Column SF(0.3*0.3)	6	0.300	0.300	2.850		1.539
	Column SF(0.6*0.3)	3	0.600	0.300	2.850		1.539
	SF slab	1	12.250	8.400	0.100		10.290
	Back wash water tank wall	1	5.320	0.250	2.850		3.791
	Back wash water tank wall	1	4.830	0.250	2.850		3.441
	Back wash water tank wall	2	3.420	0.250	2.850		4.874
	Back wash water tank wall	2	4.020	0.250	2.850		5.729
	Back wash water tank wall	1	5.240	0.250	2.850		3.734
	Back wash water tank wall	1	5.620	0.250	2.850		4.004
	Back wash water tank floor	1	11.250	8.000	0.150		13.500
	manholes	-4	0.500	0.500	0.150		-0.150
	Filtered water channel	2	15.000	0.100	1.000		3.000
	Filtered water channel	2	15.000	0.500	0.100		1.500
	Wash water drain	2	14.000	0.100	0.500		1.400
	Wash water drain	2	14.000	0.300	0.100		0.840

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	CW channel	2	18.000	0.100	0.800		2.880	
	CW channel	2	18.000	0.700	0.100		2.520	
	<b>Total</b>						<b>229.524</b>	
	<b>Total Quantity in cum</b>							<b>229.524</b>
5.007	5.34.1							
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).							
	Item no 4&5	1	33.123+2 25.784				258.907	
	<b>Total</b>						<b>258.907</b>	
	<b>Total Quantity in cum</b>							<b>258.907</b>
5.008	22.23.1							
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. 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. For vertical surface two coats @0.70 kg per sqm							
	cw channel	2	15.000		0.300		9.000	
		2	15.000		0.300		9.000	
	fw channel	2	15.000		0.400		12.000	
	fw channel	2	15.000		1.000		30.000	
	ww drain	2	15.000		0.500		15.000	
	ww drain	2	15.000		0.300		9.000	
	manifold side wall	4	4.620		0.700		12.936	
	manifold side wall	4	4.620		0.550		10.164	
	<b>Total</b>						<b>107.100</b>	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
<b>Total Quantity in sqm</b>							<b>107.100</b>
5.009	22.23.2						
	<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage &amp; water treatment plant, tunnels</p> <p>/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. 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. For horizontal surface one coat @ 1.10 kg per sqm.</p>						
	Floor slab of filter bed and pipe gallery	1	20.000	10.750			215.000
	C/W channel in pipe gallery	1	20.000	0.900			18.000
	gullet wall	1	20.000		2.700		54.000
	WW trough bottom slab	10	5.400	0.600			32.400
	<b>Total</b>						<b>319.400</b>
<b>Total Quantity in sqm</b>							<b>319.400</b>
5.010	5.9.1						
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	Levelling course(0.3*0.3)	14	4.800		0.300		20.160
	Levelling course(0.6*0.3)	9	5.400		0.400		19.440
	column footing 1 (0.3*0.3)	14	4.000		0.200		11.200
	column footing (0.3*0.3)	9	1.200		0.750		8.100
		5	1.200		2.800		16.800
	column footing 2 (0.6*0.3)	9	4.600		0.200		8.280

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	column footing (0.6*0.3)	9	1.800		0.750		12.150	
	<b>Total</b>						<b>96.130</b>	
	<b>Total Quantity in sqm</b>							<b>96.130</b>
5.011	5.9.6							
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	Column GF (0.3*0.3)	14	1.200		3.000		50.400	
	Column GF (0.6*0.3)	9	1.800		3.000		48.600	
	Column FF (0.3*0.3)	11	1.200		3.750		49.500	
	Column FF (0.6*0.3)	9	1.800		3.750		60.750	
	Column SF (0.3*0.3)	6	1.200		2.850		20.520	
	Column SF (0.6*0.3)	3	1.800		2.850		15.390	
	<b>Total</b>						<b>245.160</b>	
	<b>Total Quantity in sqm</b>							<b>245.160</b>
5.012	5.9.5							
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	Plinth Beams	12	4.020		0.450		21.708	
		8	3.420		0.450		12.312	
		2	2.350		0.450		2.115	
		2	2.270		0.450		2.043	
		6	2.200		0.450		5.940	
		6	2.120		0.450		5.724	
		6	3.940		0.450		10.638	
		4	3.840		0.450		6.912	
		4	5.320		0.450		9.576	
		8	5.620		0.450		20.232	
		6	5.240		0.450		14.148	
		4	4.830		0.450		8.694	
	Beams GF	14	4.020		0.300		16.884	
		8	3.420		0.300		8.208	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		2	2.350		0.300		1.410
		2	2.270		0.300		1.362
		6	2.200		0.300		3.960
		6	2.120		0.300		3.816
		6	3.940		0.300		7.092
		4	3.830		0.300		4.596
		4	5.320		0.350		7.448
		8	5.620		0.350		15.736
		8	5.240		0.350		14.672
		4	4.830		0.300		5.796
	Beams FF	8	4.020		0.300		9.648
		8	3.420		0.300		8.208
		2	2.350		0.300		1.410
		2	2.270		0.300		1.362
		6	2.200		0.300		3.960
		6	2.120		0.300		3.816
		6	3.940		0.300		7.092
		4	3.830		0.300		4.596
		4	5.320		0.350		7.448
		6	5.620		0.350		11.802
		6	5.240		0.350		11.004
		4	4.830		0.300		5.796
	Lintel GF	2	117.700		0.150		35.310
	Lintel FF	2	100.300		0.150		30.090
	<b>Total</b>						<b>352.564</b>
						<b>Total Quantity in sqm</b>	<b>352.564</b>
5.013	5.9.3						
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform						
	ROOF SLAB GF	1	16.580	13.760			228.141
	Porch and chlorine room slab	1	12.720	4.420			56.222
	ROOF SLAB GF(Deduction 0.3*0.3)	-14	0.300	0.300			-1.260



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	ROOF SLAB GF(Deduction 0.6*0.3)	-9	0.600	0.300			-1.620
	Top of Filter Bed	-2	3.600	2.300			-16.560
	Deduction lobby	-1	8.400	4.100			-34.440
	Deduction openings	-2	4.450	2.150			-19.135
	ROOF SLAB FF	1	16.580	13.760			228.141
	ROOF SLAB FF(Deduction 0.3*0.3)	-11	0.300	0.300			-0.990
	ROOF SLAB FF(Deduction 0.6*0.3)	-9	0.600	0.300			-1.620
	ROOF SLAB SF	1	11.750	8.500			99.875
	ROOF SLAB SF(Deduction 0.3*0.3)	-6	0.300	0.300			-0.540
	ROOF SLAB SF(Deduction 0.6*0.3)	-3	0.600	0.300			-0.540
	<b>Total</b>						<b>535.674</b>
						<b>Total Quantity in sqm</b>	<b>535.674</b>
5.014	5.9.7						
	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings ) except spiral - staircases)						
	Alum tank - step- slab	1	1.800	0.900			1.620
	step	4	0.900		0.150		0.540
	step side	2	1.800		0.120		0.432
	staircase to pipe gallery step	15	1.200		0.150		2.700
	staircase to pipe gallery slab	1	3.000	1.200			3.600
		1	1.500	1.200			1.800
	side	1	3.000		0.150		0.450
		1	1.500		0.100		0.150
	main stair steps	22	1.200		0.150		3.960
	slab	1	3.750	1.200			4.500
		1	4.570	1.200			5.484
		1	1.680	1.200			2.016

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	side	1	3.750		0.150		0.563
		1	4.570		0.150		0.686
		1	1.680		0.150		0.252
	Stair bottom	1	4.250		1.200		5.100
	<b>Total</b>						<b>33.853</b>
						<b>Total Quantity in sqm</b>	<b>33.853</b>
5.015	5.9.2						
	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.						
	Filter room wall	4	5.320		3.000		63.840
	Filter room wall	4	4.830		3.000		57.960
	Filter room wall	6	2.200		3.000		39.600
	Filter room wall	6	2.120		3.000		38.160
	Back wash tank	4	5.400		2.850		61.560
	Back wash tank	4	5.240		2.850		59.736
	Back wash tank	4	5.100		2.850		58.140
	Back wash tank	6	4.020		2.850		68.742
	Back wash tank	6	3.420		2.850		58.482
	FW Channel	4	15.000		1.000		60.000
	FW Channel	2	15.000	0.500			15.000
	CW Channel	4	18.000		0.800		57.600
	CW Channel	2	18.000	0.700			25.200
	WW drain	4	14.000		0.500		28.000
	WW drain	2	14.000	0.300			8.400
	<b>Total</b>						<b>700.420</b>
						<b>Total Quantity in sqm</b>	<b>700.420</b>
5.016	5.9.16.1						
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide						
	GF SLAB	1	60.680				60.680
		-1	64.000				-64.000
	PORCH and Chlorine room slab	1	21.200				21.200
	FF SLAB	1	60.680				60.680
	SF SLAB	1	41.180				41.180

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Sunshade GF	1	80.100				80.100
	Sunshade FF	1	63.500				63.500
	<b>Total</b>						<b>263.340</b>
	<b>Total Quantity in metre</b>						<b>263.340</b>
5.017	5.9.19						
	Centering and shuttering including strutting, etc. and removal of form for: Weather shade, Chajjas, corbels etc., including edges						
	Sunshade						
	GF	2	80.100	0.600			96.120
	FF	2	63.500	0.600			76.200
	<b>Total</b>						<b>172.320</b>
	<b>Total Quantity in sqm</b>						<b>172.320</b>
5.018	5.22.6						
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more						
	Footings@90kg/m <sup>3</sup>	1	15.120			90.000 000	1360.800
	Columns@135kg/m <sup>3</sup>	1	21.506			135.00 0000	2903.310
	Beams@90kg/m <sup>3</sup>	1	56.073			90.000 000	5046.570
	Slab@130kg/m <sup>3</sup>	1	79.795			130.00 0000	10373.35 0
	sidewalls@100kg/m <sup>3</sup>	1	93.072			100.00 0000	9307.200
	<b>Total</b>						<b>28991.23 0</b>
	<b>Total Quantity in kilogram</b>						<b>28991.23 0</b>
5.019	50.6.1.2						
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.						
	Brick Work						
	GF	5	4.020	0.200	2.550		10.251
		3	3.420	0.200	2.550		5.233
		1	2.350	0.200	2.550		1.199
		1	2.270	0.200	2.550		1.158

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		1	3.830	0.200	2.550		1.953
		1	3.940	0.200	2.550		2.009
		3	5.620	0.200	2.500		8.430
		2	5.240	0.200	2.500		5.240
		1	2.520	0.200	2.550		1.285
	FF	4	4.020	0.200	3.300		10.613
		3	3.420	0.200	3.300		6.772
		1	2.350	0.200	3.300		1.551
		1	2.270	0.200	3.300		1.498
		2	2.200	0.200	3.300		2.904
		2	2.120	0.200	3.300		2.798
		2	3.830	0.200	3.300		5.056
		2	3.940	0.200	3.300		5.201
		1	5.320	0.200	3.250		3.458
		1	4.830	0.200	3.300		3.188
		2	5.620	0.200	3.250		7.306
		2	5.240	0.200	3.250		6.812
	Rolling shutter	-2	2.000	0.200	3.000		-2.400
	jali work	-2	1.500	0.200	1.950		-1.170
	V	-16	1.000	0.200	0.600		-1.920
	V1	-1	0.400	0.200	0.600		-0.048
	W1	-5	1.000	0.200	1.500		-1.500
	W2	-7	1.500	0.200	1.500		-3.150
	W3	-3	2.000	0.200	1.500		-1.800
	D1	-1	1.500	0.200	2.100		-0.630
	D2	-2	1.000	0.200	2.100		-0.840
	D3	-5	0.900	0.200	2.100		-1.890
	Lab platform	7	0.900	0.200	0.600		0.756
	Alum room	1	1.600	0.150	0.300		0.072
	Alum room	1	1.300	0.150	0.300		0.059
	walkway	1	4.100	0.200	0.450		0.369
	Alum tank and Lime tank	1	4.100	0.200	1.500		1.230
	Alum tank	1	0.400	0.200	1.500		0.120
	Stilling Chamber	4	1.400	0.200	1.500		1.680
	Stilling Chamber	4	1.000	0.200	1.500		1.200
	<b>Total</b>						<b>84.053</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
<b>Total Quantity in cum</b>							<b>84.053</b>
5.020	50.6.3.2						
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding complete						
	Parapet						
	porch and chlorine room	1	12.520	0.100	0.800		1.002
		2	4.020	0.100	0.800		0.643
	roof parapet	1	37.500	0.100	0.800		3.000
	<b>Total</b>						<b>4.645</b>
<b>Total Quantity in cum</b>							<b>4.645</b>
5.021	4.1.8						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)						
	.						
	Lobby	1	7.800	4.100	0.150		4.797
	Filter Room	2	5.700	4.100	0.150		7.011
	Chlorine Room	1	5.400	4.100	0.150		3.321
	Chemical Room	1	4.100	13.120	0.150		8.069
	Blower	1	3.000	4.100	0.150		1.845
	Pipe gallery	1	12.060	2.800	0.150		5.065
	<b>Total</b>						<b>30.108</b>
<b>Total Quantity in cum</b>							<b>30.108</b>
5.022	4.1.3						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)						
	.						
	Chlorine Room	1	5.400	4.100	0.100		2.214
	Chemical Room	1	4.100	13.120	0.100		5.379
	Blower	1	3.000	4.100	0.100		1.230
	Pipe gallery	1	12.060	2.800	0.100		3.377
	<b>Total</b>						<b>12.200</b>
<b>Total Quantity in cum</b>							<b>12.200</b>
5.023	11.3.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate						
	Chlorine Room	1	5.400	4.100			22.140
	Chemical Room	1	4.100	13.120			53.792
	Blower	1	3.000	4.100			12.300
	Pipe gallery	1	12.060	2.800			33.768
	<b>Total</b>						<b>122.000</b>
	<b>Total Quantity in sqm</b>						<b>122.000</b>
5.024	13.16.1						
	6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)						
	Roof Slab GF	1	16.580	13.760			228.141
	Porch Slab and chlorine room	1	12.720	4.420			56.222
	Deduction top of filter bed	-2	3.600	2.300			-16.560
		-1	8.400	4.100			-34.440
		-2	4.450	2.150			-19.135
	Deduction coln	-14	0.300	0.300			-1.260
	Deduction coln	-9	0.600	0.300			-1.620
	ROOF SLAB FF	1	16.580	13.760			228.141
	Deduction coln	-11	0.300	0.300			-0.990
	Deduction coln	-9	0.600	0.300			-1.620
	SF slab	2	12.250	8.400			205.800
	Deduction coln	-6	0.300	0.300			-0.540
	Deduction coln	-3	0.600	0.300			-0.540
	<b>Total</b>						<b>641.599</b>
	<b>Total Quantity in sqm</b>						<b>641.599</b>
5.025	13.1.1						
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)						
	GF Walls with column and beams	4	4.540		3.000		54.480
		4	13.120		3.000		157.440
		4	4.320		3.000		51.840

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		2	4.320		0.300		2.592
		6	5.620		3.000		101.160
		2	5.620		0.350		3.934
		4	5.240		3.000		62.880
		4	5.240		0.350		7.336
		2	4.320		3.000		25.920
		2	4.020		3.000		24.120
		4	5.420		3.000		65.040
		4	5.400		3.000		64.800
		4	4.920		3.000		59.040
		2	2.500		3.000		15.000
	standalone column	2	1.200		2.700		6.480
	Sunshade GF	2	80.140	0.600			96.168
	FF Walls with column and beams	4	5.080		3.750		76.200
		8	4.500		3.750		135.000
	Toilet outer wall	1	1.800		3.750		6.750
	Toilet inside wall	1	1.800		1.750		3.150
		1	1.300		1.750		2.275
		4	3.500		3.750		52.500
		4	4.000		3.750		60.000
		4	5.620		3.750		84.300
		4	5.240		3.000		62.880
		4	4.600		3.750		69.000
		2	4.320		3.750		32.400
		2	4.920		3.750		36.900
		2	5.400		3.750		40.500
		2	5.420		3.750		40.650
		4	5.620	0.350			7.868
		4	5.240	0.350			7.336
		2	4.920	0.300			2.952
		2	3.830	0.300			2.298
	Stand alone clms	2	1.800		3.450		12.420
	Sunshade	2	63.500	0.600			76.200
	Walls with column SF	4	4.920		2.850		56.088
		4	11.580		2.850		132.012

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Stand alone clms	1	1.200		2.850		3.420
	Deductions W1	-5	1.000		1.500		-7.500
	W2	-7	1.500		1.500		-15.750
	W3	-3	2.000		1.500		-9.000
	D1	-1	1.500		2.100		-3.150
	D2	-2	1.000		2.100		-4.200
	D3	-5	0.900		2.100		-9.450
	D4	-1	0.800		1.800		-1.440
	V	-16	1.000		0.600		-9.600
	V1	-1	0.600		0.400		-0.240
	Opening	-1	1.100		2.100		-2.310
	Rolling shutter	-2	2.000		3.000		-12.000
	parapet porch&chlorine room	4	4.020		0.800		12.864
		2	12.320		0.800		19.712
	top	1	20.300		0.100		2.030
	parapet roof	2	37.500		0.800		60.000
	top	1	37.500		0.100		3.750
	Lab	4	5.400		3.000		64.800
	Lab	7	1.800	0.200			2.520
	Alum tank	2	4.100	0.700			5.740
	Alum tank	2	0.600	0.700			0.840
	Alum tank	1	1.200	0.450			0.540
	Alum tank	6	0.300	0.150			0.270
	FW channel	2	15.000		1.000		30.000
	FW channel	2	15.000		0.400		12.000
	ww drain	2	15.000		0.500		15.000
	ww drain	2	15.000	0.300			9.000
	cw channel	2	15.000	0.300			9.000
	cw channel	2	15.000	0.300			9.000
	stilling chamber	4	1.400		1.500		8.400
	stilling chamber	4	1.000		1.500		6.000
	<b>Total</b>						<b>1998.155</b>
						<b>Total Quantity in sqm</b>	<b>1998.155</b>
5.026	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	same as item above	1	1889.185				1889.185
	<b>Total</b>						<b>1889.185</b>
						<b>Total Quantity in sqm</b>	<b>1889.185</b>
5.027	13.60.1						
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
		1889.185					1889.185
	<b>Total</b>						<b>1889.185</b>
						<b>Total Quantity in sqm</b>	<b>1889.185</b>
5.028	13.44.1						
	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)						
	Filter bed Side walls	2	5.320		3.000		31.920
	Filter bed Side walls	2	4.830		3.000		28.980
	Filter bed Side walls	2	2.200		3.000		13.200
	Filter bed Side walls	2	2.120		3.000		12.720
	filter bed floor	2	4.920		5.230		51.463
	back wash water tank walls	2	12.250		2.850		69.825
	back wash water tank walls	2	7.740		2.850		44.118
	back wash water tank floor	1	11.800		7.740		91.332
	<b>Total</b>						<b>343.558</b>
						<b>Total Quantity in sqm</b>	<b>343.558</b>
5.029	10.6.1						
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.25 mm M.S. laths with 1.25 mm thick top cover						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Rolling shutter						
		2	2.000		3.000		12.000
	<b>Total</b>						<b>12.000</b>
						<b>Total Quantity in sqm</b>	<b>12.000</b>
5.030	9.120.1						
	<p>Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top &amp; 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 &amp;#39;C&amp;#39; 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 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on th 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 mmx2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail &amp; bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles &amp; 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 &amp;#39;C&amp;#39; Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture&amp;#39;s specification &amp; drawing. 30 mm thick plain PVC door shutters</p>						
		1	0.800		1.800		1.440
	<b>Total</b>						<b>1.440</b>
						<b>Total Quantity in sqm</b>	<b>1.440</b>
5.031	21.1.1.3						
	<p>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):  For fixed portion Polyester powder coated aluminium ( minimum thickness of polyester powder coating 50 micron )</p>						
	W1	5	5.000			0.5800 00	14.500
	W2	7	6.000			0.5800 00	24.360

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	W3	3	7.000			0.5800 00	12.180
	D1	1	7.200			0.5800 00	4.176
	D2	2	6.200			0.5800 00	7.192
	D3	5	6.000			0.5800 00	17.400
	VENTILATORS	16	3.200			0.5800 00	29.696
	VENTILATORS 1	1	2.000			0.5800 00	1.160
	<b>Total</b>						<b>110.664</b>
						<b>Total Quantity in kg</b>	<b>110.664</b>
5.032	21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness						
	W1	10	0.550		1.450		7.975
	W2	14	0.700		1.450		14.210
	W3	9	0.800		1.450		10.440
	D1	1	1.450		0.900		1.305
	D2	2	0.950		0.900		1.710
	D3	5	0.850		0.900		3.825
	<b>Total</b>						<b>39.465</b>
						<b>Total Quantity in sqm</b>	<b>39.465</b>
5.033	OD76925/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	<p>Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: a) Structural analysis &amp; design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material &amp; labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium items The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.</p>							
							.	
	D1	1	1.450		1.200		1.740	
	D2	2	0.950		1.200		2.280	
	D3	5	0.850		1.200		5.100	
	<b>Total</b>						<b>9.120</b>	
	<b>Total Quantity in sqm</b>							<b>9.120</b>
5.034	21.17							
	<p>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 ).</p>							
							.	
	W1	5	1.000		1.500		7.500	
	W2	7	1.500		1.500		15.750	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	W3	3	2.000		1.500		9.000	
	<b>Total</b>						<b>32.250</b>	
	<b>Total Quantity in kg</b>							<b>32.250</b>
5.035	11.36	Providing and fixing I st 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 @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.						
	Wall tile							
	Toilet walls	2	1.800		2.000		7.200	
	Toilet walls	2	1.300		2.000		5.200	
	LAB WALL	1	10.500	0.450			4.725	
	gullet	2	12.300	2.900			71.340	
	ww trough	8	4.400		0.400		14.080	
	ww trough	4	4.400		0.700		12.320	
	<b>Total</b>						<b>114.865</b>	
	<b>Total Quantity in sqm</b>							<b>114.865</b>
5.036	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), including pointing the joints with white cement and matching pigment etc., complete.						
	Floor tile							
	Lobby	1	8.000	4.300			34.400	
	Filter Room	2	6.000	4.300			51.600	
	Private Room	1	5.300	4.300			22.790	
	Toilet	1	1.800	1.300			2.340	
	Retiring Room	1	4.300	3.700			15.910	
	Solution Room	1	4.200	4.300			18.060	
	Laboratory	1	5.400	4.100			22.140	
	operating platform	2	0.900	4.400			7.920	
		1	1.800	4.400			7.920	
		1	11.200	1.050			11.760	
		1	11.200	1.700			19.040	
		1	1.300	2.400			3.120	
	Staircase	24	1.200	0.467			13.450	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Staircase side	24	0.300	0.167		0.5000 00	0.601
	Staircase side	1	4.100	0.150			0.615
	LAB SLAB	1	8.700	1.100			9.570
	Manifold	1	4.000	1.850			7.400
	Drain room	2	12.300	2.900			71.340
	<b>Total</b>						<b>319.976</b>
						<b>Total Quantity in sqm</b>	<b>319.976</b>
5.037	16.89						
	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi models location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.						
	Porch	1	5.740	4.320			24.797
	<b>Total</b>						<b>24.797</b>
						<b>Total Quantity in sqm</b>	<b>24.797</b>
5.038	100.41.33						
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.						
	manhole	4					4.000
	<b>Total</b>						<b>4.000</b>
						<b>Total Quantity in no</b>	<b>4.000</b>
5.039	OD79654/2022-2023						
	Supplying and providing water level indicator to the tank using scale fabricated out of 2mm thick MS plate with in the frame work of suitable size MS square tube, 160mm PVC pipe for guiding the float, necessary pullies, suitable nylon thread for connecting float and level indicator, painting the entire structure, lettering etc complete including all charges for material and labour for GL tank						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
5.040	OD79731/2022-2023						
	Supplying and providing 100mm dia vent cowl including fitting charges etc.						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		6					6.000
	<b>Total</b>						<b>6.000</b>
						<b>Total Quantity in no</b>	<b>6.000</b>
5.041	100.36.1						
	Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.						
		150					150.000
	<b>Total</b>						<b>150.000</b>
						<b>Total Quantity in Kilo litre</b>	<b>150.000</b>
5.042	10.16.1						
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes						
		423					423.000
	<b>Total</b>						<b>423.000</b>
						<b>Total Quantity in kg</b>	<b>423.000</b>
5.043	OD80675/2022-2023						
	Providing and fixing handrail of approved size by welding/ riveting etc., to steel ladder railing, balcony railing, staircases railing and similar works, including fittings and fixing charges. ALUMINIUM TUBE						
		200					200.000
	<b>Total</b>						<b>200.000</b>
						<b>Total Quantity in kilogram</b>	<b>200.000</b>
6	Filter media						
6.001	100.55.1						
	Supplying of 2 to 6 mm and 6 to 12 mm size fine pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5 km and labour charges for stacking, spreading, testing and as per the directions of the department officers etc. complete as per CPHEEO specifications.						
		2	5.700	4.100	0.200		9.348
	<b>Total</b>						<b>9.348</b>
						<b>Total Quantity in cum</b>	<b>9.348</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
6.002	100.55.2						
	Supplying of 12 to 20mm size pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5km and labour charges for stacking, spreading, testing and as per the directions of the department officers etc complete and as per CPHEEO specification.						
		2	5.700	4.100	0.200		9.348
	<b>Total</b>						<b>9.348</b>
						<b>Total Quantity in cum</b>	<b>9.348</b>
6.003	100.55.3						
	Supplying of 20 to 40 mm pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5 km and labour charges for stacking, spreading, testing and as per directions of the department officers etc. complete and as per CPHEEO specification.						
		2	5.700	4.100	0.100		4.674
	<b>Total</b>						<b>4.674</b>
						<b>Total Quantity in cum</b>	<b>4.674</b>
6.004	100.55.4						
	Supplying and stacking for measurement of filter sand having effective size 0.45 to 0.70 mm and uniformity coefficient 1.30 to 1.7, of specific gravity in the range of 2.55 - 2.65 and hard and clean, free from clay, dust and other impurities including cost of materials, labour charges and conveyance of materials up to 5 km and as per the directions of the department officers etc. complete and as per CPHEEO specification.						
		2	5.700	4.100	0.600		28.044
	<b>Total</b>						<b>28.044</b>
						<b>Total Quantity in cum</b>	<b>28.044</b>
7	General ground levelling, Road formation, demolishing						
7.001	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						
		1	2400.000				2400.000
	<b>Total</b>						<b>2400.000</b>
						<b>Total Quantity in sqm</b>	<b>2400.000</b>
7.002	2.33.1						



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 30 cm girth up to and including 60 cm girth						
	.	10					10.000
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in each</b>	<b>10.000</b>
7.003	2.33.2						
	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 60 cm girth up to and including 120 cm girth						
	.	5					5.000
	<b>Total</b>						<b>5.000</b>
						<b>Total Quantity in each</b>	<b>5.000</b>
7.004	2.33.3						
	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 120 cm girth up to and including 240 cm girth						
	.	6					6.000
	<b>Total</b>						<b>6.000</b>
						<b>Total Quantity in each</b>	<b>6.000</b>
7.005	16.91.2						
	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. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.						
	.	1	40.000	3.000			120.000
		1	30.000	1.500			45.000
	<b>Total</b>						<b>165.000</b>
						<b>Total Quantity in sqm</b>	<b>165.000</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
7.006	15.2.1						
	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)						
	FLOOR	1	34.250	26.050	0.150		133.832
	SIDE WALL	2	34.250	0.300	2.620		53.841
		2	25.650	0.300	2.620		40.322
	INSIDE	2	25.650	0.300	2.620		40.322
	<b>Total</b>						<b>268.317</b>
	<b>Total Quantity in cum</b>						<b>268.317</b>
7.007	15.9.1						
	Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in- Charges:In Lime Mortar						
	RR FDN	1	34.850	26.050	(4+0.4)/2		1997.254
	<b>Total</b>						<b>1997.254</b>
	<b>Total Quantity in cum</b>						<b>1997.254</b>
8	Wash Water Arrangements to nearest safe drain/source after purification of wash water						
8.001	100.1.1						
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.						
	for 300 mm DI pipe						
		1	350.000	1.000	1.250	0.6500 00	284.375
	<b>Total</b>						<b>284.375</b>
	<b>Total Quantity in cum</b>						<b>284.375</b>
8.002	100.1.5						
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm 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, in Ordinary Rock.						
	ordinary rock						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	300 mm DI	1	350.000	1.000	1.250	0.2500 00	109.375
	<b>Total</b>						<b>109.375</b>
	<b>Total Quantity in cum</b>						<b>109.375</b>
8.003	100.1.13 Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Hard Rock where Blasting is Prohibited.						
	hard rock						
	300 mm DI	1	350.000	1.000	1.250	0.0500 00	21.875
	<b>Total</b>						<b>21.875</b>
	<b>Total Quantity in cum</b>						<b>21.875</b>
8.004	100.2.2 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10m <sup>2</sup> on plan), including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited.						
	hard rock						
	300 mm DI	1	350.000	1.000	1.250	0.0500 00	21.875
	<b>Total</b>						<b>21.875</b>
	<b>Total Quantity in cum</b>						<b>21.875</b>
8.005	100.8.2 Fencing 1.50m high with two rows of casuarina poles (girth 15cm to 24cm) tied with coir yarn on vertical casuarina pole (girth 15cm to 24cm) fixed at 1.5m intervals.						
		1	350.000				350.000
	<b>Total</b>						<b>350.000</b>
	<b>Total Quantity in metre</b>						<b>350.000</b>
8.006	15.2.1 Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)						
	demolition						
	cc demolition	4	10.000	0.800	0.150		4.800
	<b>Total</b>						<b>4.800</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total Quantity in cum</b>						<b>4.800</b>
8.007	18.72.5	Providing and laying S & S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329:300 mm dia Ductile Iron CClass K-7 pipes					
	300 mm DI K7						
	WW drain	1	350.000				350.000
	<b>Total</b>						<b>350.000</b>
	<b>Total Quantity in metre</b>						<b>350.000</b>
8.008	18.70.5	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:300 mm dia pipe					
	300 mm D/F DI K7 pipe TYTON JOINTS						
	tyton joints	75					75.000
	<b>Total</b>						<b>75.000</b>
	<b>Total Quantity in joint</b>						<b>75.000</b>
8.009	18.83.7	Labour for cutting C.I. pipe with steel saw.300 mm diameter C.I. pipe					
	300 mm DI pipe cutting						
	DI pipe cutting	8					8.000
	<b>Total</b>						<b>8.000</b>
	<b>Total Quantity in Each Cut</b>						<b>8.000</b>
8.010	18.68.1	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia					
	DI specials						
	300 mm 90 deg bend	3				0.6500 00	1.950
	300 mm 45 deg bend	2				0.4900 00	0.980
	300 mm 11.25 deg bend	4				0.3700 00	1.480
	<b>Total</b>						<b>4.410</b>
	<b>Total Quantity in quintal</b>						<b>4.410</b>
8.011	100.35.5	Testing 300mm DI/CI pipeline with potable water to the required test pressure. 300 mm dia Observed Data derived from item no.1023 of PHED DATA					
	testing 300 mm DI						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	testing 300 mm DI	1	350.000				350.000	
	<b>Total</b>						<b>350.000</b>	
	<b>Total Quantity in metre</b>							<b>350.000</b>
8.012	4.1.3							
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)							
	road restoration & anchor blocks							
	road restoration	4	10.000	0.800	0.150		4.800	
	anchor blocks	8	0.800	0.800	0.800		4.096	
	<b>Total</b>						<b>8.896</b>	
	<b>Total Quantity in cum</b>							<b>8.896</b>
8.013	4.3.1							
	Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns							
	form work							
	form work	32	0.800	0.800			20.480	
	<b>Total</b>						<b>20.480</b>	
	<b>Total Quantity in sqm</b>							<b>20.480</b>
8.014	5.22.6							
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more							
	reinforcement TMT bars							
	20 kg /cum for anchor blocks	1	4.096			20.000 000	81.920	
	<b>Total</b>						<b>81.920</b>	
	<b>Total Quantity in kilogram</b>							<b>81.920</b>
9	<b>MECHANICAL ITEMS</b>							
9.001	OD49435/2022-2023							
	Supply of 80mm GI pipe and specials							
	.							
	From top of bed to filter box	5	10.000				50.000	
	<b>Total</b>						<b>50.000</b>	
	<b>Total Quantity in metre</b>							<b>50.000</b>
9.002	100.37.5.1							

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	In situ fabrication of M.S. pipes of size 100mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.						
	From blower to top of bed	1	30.000				30.000
	<b>Total</b>						<b>30.000</b>
	<b>Total Quantity in metre</b>						<b>30.000</b>
9.003	100.37.5.2						
	Fabricating M.S. flanges of diameter 100mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.						
		8					8.000
	<b>Total</b>						<b>8.000</b>
	<b>Total Quantity in no</b>						<b>8.000</b>
9.004	100.37.5.3						
	Cutting 100mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.						
		8					8.000
	<b>Total</b>						<b>8.000</b>
	<b>Total Quantity in no</b>						<b>8.000</b>
9.005	100.37.5.4						
	Welding 100mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.						
		8					8.000
	<b>Total</b>						<b>8.000</b>
	<b>Total Quantity in no</b>						<b>8.000</b>
9.006	100.37.5.5						
	Grinding cut and weld edges of 100mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.						
		16					16.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>16.000</b>
						<b>Total Quantity in no</b>	<b>16.000</b>
9.007	100.15.1						
	Conveying and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K-9 conforming to IS: 8329, excluding cost of pipe and specials: 100mm diameter Ductile Iron Double Flanged Pipes.						
	blower to top of bed						
	100 mm mS pipe fixing	1	30.000				30.000
	<b>Total</b>						<b>30.000</b>
						<b>Total Quantity in metre</b>	<b>30.000</b>
9.008	OD49477/2022-2023						
	Conveying and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work- Exposed on wall&lt;br&gt;80 mm dia nominal bore						
		1	50.000				50.000
	<b>Total</b>						<b>50.000</b>
						<b>Total Quantity in metre</b>	<b>50.000</b>
9.009	18.73.2						
	Providing and laying Double Flanged ( Screwed / Welded ) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :150 mm dia Ductile Iron Double Flanged						
	back wash water pumping main and overflow scour arrangements						
	Inlet and overflow of wash water tank	1	36.000				36.000
	<b>Total</b>						<b>36.000</b>
						<b>Total Quantity in metre</b>	<b>36.000</b>
9.010	18.73.5						
	Providing and laying Double Flanged ( Screwed / Welded ) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :300 mm dia Ductile Iron Double Flanged						
	300 mm D/F DI K9 pipe						
	Filter bed outlet and header pipe	1	14.000				14.000
	back wash water inlet to bed	1	9.000				9.000
	Aerator column	1	6.000				6.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Flash mixer to Clariflocculator	1	15.000				15.000
	<b>Total</b>						<b>44.000</b>
	<b>Total Quantity in metre</b>						<b>44.000</b>
9.011	OD49583/2022-2023						
	Labour for cutting Ductile Iron pipe with steel saw.300 mm diameter Ductile Iron. pipe						
	300mm flanged joints						
	for 44 m	10					10.000
	<b>Total</b>						<b>10.000</b>
	<b>Total Quantity in no</b>						<b>10.000</b>
9.012	OD49603/2022-2023						
	Labour for cutting Ductile Iron pipe with steel saw.150 mm diameter Ductile Iron. pipe						
	.						
	150 mm diameter Ductile Iron. pipe	6					6.000
	<b>Total</b>						<b>6.000</b>
	<b>Total Quantity in no</b>						<b>6.000</b>
9.013	18.30.1						
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:80 mm diameter pipe						
	.						
		20					20.000
	<b>Total</b>						<b>20.000</b>
	<b>Total Quantity in no</b>						<b>20.000</b>
9.014	18.30.2						
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:100 mm diameter pipe						
	flanged joints 100 mm						
	flanged joints 100 mm blower outlet	12					12.000
	<b>Total</b>						<b>12.000</b>
	<b>Total Quantity in no</b>						<b>12.000</b>
9.015	18.30.4						
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm diameter pipe						
	WW PM,overflow,scour						
	150 mm flanged joints	10					10.000



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in no</b>	<b>10.000</b>
9.016	18.30.7						
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:300 mm diameter pipe						
	300 mm flanged joints						
	for 44 m	10					10.000
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in no</b>	<b>10.000</b>
9.017	18.68.1						
	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia						
	providing flanged bends, Tees and other specials 300mm DI K12						
	300x90 AF DI bend	7				0.7000 00	4.900
	300 x 300 mm TEE	3				1.0600 00	3.180
	150x90 AF DI bend	4				0.2100 00	0.840
	100x90 DI bend	4				0.1200 00	0.480
	300 mm wall casting pipe	5				0.4200 00	2.100
	150 mm wall casting pipe	4				0.1600 00	0.640
	100 mm wall casting pipe	2				0.1000 00	0.200
	<b>Total</b>						<b>12.340</b>
						<b>Total Quantity in quintal</b>	<b>12.340</b>
9.018	100.98.481						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 80mm.						
	.						
	Blower to bed	2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
9.019	100.98.484						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 150mm.						
	150 mm CI D/F sluice valve						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Back wash scour	1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
9.020	100.98.487						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 300mm.						
	300 mm CI DF sluice valve						
	Bed back wash outlet	2					2.000
	Filter outlet	2					2.000
	Flow control valves to stilling chamber	2					2.000
	Back wash inlet to beds	2					2.000
	<b>Total</b>						<b>8.000</b>
						<b>Total Quantity in no</b>	<b>8.000</b>
9.021	100.31.2.1						
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 80mm diameter, Class II.						
	blower to top of bed						
	Blower to bed	2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
9.022	100.31.2.4						
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 150mm diameter, Class II.						
	80mm CI DF sluice valve						
	Blower to bed	1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
9.023	100.31.2.7						
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 300mm diameter, Class II.						
	300 mm CI DF sluice valve						
	8 nos	8					8.000
	<b>Total</b>						<b>8.000</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total Quantity in no</b>						<b>8.000</b>
9.024	100.98.232						
	Supply of PVC Pipe, 10kg/cm2, 40mm Dia.						
	.						
	Alum ,lime mixing water line	1	60.000				60.000
	Pressure line for cleaning	1	70.000				70.000
	Chlorine	1	20.000				20.000
	<b>Total</b>						<b>150.000</b>
	<b>Total Quantity in metre</b>						<b>150.000</b>
9.025	100.98.236						
	Supply of PVC Pipe, 10kg/cm2, 90mm Dia.						
	.						
	Alum ,lime outlet and scour	1	40.000				40.000
	<b>Total</b>						<b>40.000</b>
	<b>Total Quantity in metre</b>						<b>40.000</b>
9.026	OD49677/2022-2023						
	Supply, laying, and commissioning of 90mm PVC pipe 10kg/cm2 for lateral pipes in the filter bed by drilling holes at required angles preventign entry of filter media, and laying filter bed as per drawings. As per the direction of departmental officers.						
	90 mm PVC 10kg						
	lateral pipes perforated	1	224.000				224.000
	<b>Total</b>						<b>224.000</b>
	<b>Total Quantity in metre</b>						<b>224.000</b>
9.027	100.9.4						
	Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 40 mm nominal outside diameter pipes.						
	.						
		1	130.000				130.000
	<b>Total</b>						<b>130.000</b>
	<b>Total Quantity in metre</b>						<b>130.000</b>
9.028	100.9.8						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 90 mm nominal outside diameter pipes.							
	.							
		1	40.000				40.000	
	<b>Total</b>						<b>40.000</b>	
		<b>Total Quantity in metre</b>						<b>40.000</b>
9.029	OD49906/2022-2023							
	Supply, providing testing and commissioning of Flocculator scour arrangements with suitable operating mechanism 200mm (PN 1.6) or nearest size including gear system and spindles with suitable wheel specification with connecting specials as per the direction of departmental officers.							
	scour arrangements							
	using 200 mm dia pipe	1					1.000	
	<b>Total</b>						<b>1.000</b>	
		<b>Total Quantity in no</b>						<b>1.000</b>
9.030	OD49932/2022-2023							
	Supply, erection, testing and commissioning of flocculator unit agitator motor with reduction gear of best quality make brand new 2.5 HP or nearest suitable squirrel cage induction motor ( reduction gear box with suitable ratio ) , etc. complete as per the direction of departmental officers.							
	.							
		1					1.000	
	<b>Total</b>						<b>1.000</b>	
		<b>Total Quantity in no</b>						<b>1.000</b>
9.031	OD49939/2022-2023							
	Supply, erection, testing and commissioning of clariflocculator unit suitable raking arm motor with reduction gear of best quality make brand new HP or nearest suitable squirrel cage induction motor ( reduction gear box with suitable ratio ) , etc. including panel board, starter, cable, capacitor, pipe connections, earthing and two year maintenance complete as per the direction of departmental officers.							
	.							
		1					1.000	
	<b>Total</b>						<b>1.000</b>	
		<b>Total Quantity in no</b>						<b>1.000</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
9.032	OD49980/2022-2023						
	Supply, providing testing and commissioning of Flash mixer gate valves -400 mm square type (PN&lt;br&gt;1.6) or nearest IS specification of IS-3042 including gear system and spindles with suitable specification for works in&lt;br&gt;manually with connecting specials as per the direction of departmental officers.						
	gate valves rectangular type 400mm width						
	filter inlet-2,aerator-2,by-pass channel1	5					5.000
	<b>Total</b>						<b>5.000</b>
						<b>Total Quantity in no</b>	<b>5.000</b>
9.033	OD50077/2022-2023						
	Supply, erection, testing and commissioning of flash mixer unit agitator of best quality make brand&lt;br&gt;new 2 HP or nearest suitable squirrel cage induction motor ( reduction gear box with suitable ratio ) , etc. including panel board, starter, cable, capacitor, pipe connections, earthing and two year maintenance complete asper the direction of departmental officers						
	.	1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
9.034	OD50135/2022-2023						
	Supply, providing testing and commissioning of Alum and lime solution out let valves-80 mm GM with suitable specification for works in manually including specials						
	.						
	Alum and Lime-Outlet and scour	8					8.000
	<b>Total</b>						<b>8.000</b>
						<b>Total Quantity in no</b>	<b>8.000</b>
9.035	OD50151/2022-2023						
	Supply, erection, testing and commissioning of Alum, lime agitator motor with reduction gear of best quality make brand new 1.5 HP or nearest suitable squirrel cage induction motor with suitable specification for works in manually,electrically ( reduction gear box with suitable ratio ) , etc. including panel board, starter, cable, capacitor, pipe connections, earthing and two year maintenance complete as per the direction of departmental officers.						
	.						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Alum and Lime	4					4.000
	<b>Total</b>						<b>4.000</b>
						<b>Total Quantity in no</b>	<b>4.000</b>
9.036	OD50787/2022-2023						
	Supply, and fixing of spindles and wheel for scour valves and back wash inlet.filter outlet, flow control ( 300 mm(PN 1.6) ) including gear system and spindles with suitable specification for works in manually with connecting specials						
	Filter bed back wash,scour, CW outlet etc.as per specification						
	Filter bed back wash,scour, CW outlet etc.as per specification	10					10.000
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in no</b>	<b>10.000</b>
9.037	OD50843/2022-2023						
	Supply, providing testing and commissioning of blower units for filter bed 0.7m3/min/sqm including NRV,sluice valves,starter.capacitor of required capacity and associated electrical works with connecting specials as per the direction of departmental officers.						
	.						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
9.038	OD50852/2022-2023						
	Supply, providing testing and commissioning of inlet pump for back wash tank( 17.36lps and total head 10) suitable for the treatment plant works operating at 415V/50hz AC supply , 8 mm thick MS header pipe and suction pipe of suitable sizes, with connecting specials and including panel board, starter, cable, capacitor, pipe connections, foot valve, sluice valve, NRV earthing and two year maintenance as per the direction of departmental officers						
	.						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
9.039	OD50857/2022-2023						
	Supply, providing testing and commissioning of chlorine tonner with all statutory approval .and filled from TCCL.						
	.						
		2					2.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
9.040	OD50870/2022-2023 Supply, providing testing and commissioning of chlorinator unit with vaccum feed flow(Material Ragid pvc pipe, rod, sheet, copper, brass and extra heavy duty borosilicate glass) of capacity 50grams to 2000grams/hr specification for works in manually or electrically with connecting specials as per the direction&lt;br&gt;of departmental officers						
	.	2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in set</b>	<b>2.000</b>
9.041	OD50908/2022-2023 supply and providing Scraping piece in the raker arm .The high quality compressed rubberized(with compressed rubber piece as per IS/ISO specification including fixing piece ) piece with in the unit. as per the direction of departmental officers.						
	.	1	12.000				12.000
	<b>Total</b>						<b>12.000</b>
						<b>Total Quantity in metre</b>	<b>12.000</b>
10	Electrification works						
10.00	OD51033/2022-2023 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm&lt;br&gt;FRLS PVC&lt;br&gt;insulated copper conductor single core cable in surface I recessed PVC&lt;br&gt;conduit, with piano type switch, phenolic&lt;br&gt;laminated sheet, suitable size MS box and&lt;br&gt;earthing the point with 1.5 sq. mm FRLS PVC insulated copper&lt;br&gt;conductor single&lt;br&gt;core cable etc. as required.&lt;br&gt;Group B						
	.	95					95.000
	<b>Total</b>						<b>95.000</b>
						<b>Total Quantity in no</b>	<b>95.000</b>
10.00	OD51088/2022-2023 Wiring for circuit/ submain wiring alongwith earth wire with the&lt;br&gt;following sizes of FRLS PVC&lt;br&gt;insulated copper conductor, single&lt;br&gt;core cable in surface/ recessed medium class PVC conduit&lt;br&gt;as&lt;br&gt;required.&lt;br&gt;2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	.	60					60.000	
	<b>Total</b>						<b>60.000</b>	
		<b>Total Quantity in no</b>						<b>60.000</b>
10.00 3	OD51111/2022-2023 Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire							
	.	1	400.000				400.000	
	<b>Total</b>						<b>400.000</b>	
		<b>Total Quantity in metre</b>						<b>400.000</b>
10.00 4	OD51125/2022-2023 Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required; 20MM							
	.	1	200.000				200.000	
	<b>Total</b>						<b>200.000</b>	
		<b>Total Quantity in metre</b>						<b>200.000</b>
10.00 5	OD51139/2022-2023 Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; 2 X 4 sq. mm + 1 X 4 sq. mm earth wire							
	.	1	250.000				250.000	
	<b>Total</b>						<b>250.000</b>	
		<b>Total Quantity in metre</b>						<b>250.000</b>
10.00 6	OD51206/2022-2023 Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire							



Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	.						
		1	200.000				200.000
	<b>Total</b>						<b>200.000</b>
						<b>Total Quantity in metre</b>	<b>200.000</b>
10.00 7	OD51224/2022-2023 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 4 X 4 sq. mm + 2 X 4 sq. mm earth wire						
	.						
		1	160.000				160.000
	<b>Total</b>						<b>160.000</b>
						<b>Total Quantity in metre</b>	<b>160.000</b>
10.00 8	OD51255/2022-2023 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 4 X 6 sq. mm + 2 X 6 sq. mm earth wire						
	.						
		1	190.000				190.000
	<b>Total</b>						<b>190.000</b>
						<b>Total Quantity in metre</b>	<b>190.000</b>
10.00 9	OD51316/2022-2023 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.						
	.						
		20					20.000
	<b>Total</b>						<b>20.000</b>
						<b>Total Quantity in no</b>	<b>20.000</b>
10.01 0	OD51327/2022-2023 roviding and fixing fallowing rating and breking capacity MCCB with thermodynamic release and terminal spreders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel,making connections etc as required 150KA, 16KA						
	.						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.01 1	OD51334/2022-2023 Providing and fixing following rating and breking capacity MCCB with thermodynamic release and terminal spreaders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel, making connections etc as required; 125A, 16KA						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
10.01 2	OD51345/2022-2023 Providing and fixing following rating and breking capacity MCCB with thermodynamic release and terminal spreaders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel, making connections etc as required; 100A, 16KA						
		4					4.000
	<b>Total</b>						<b>4.000</b>
						<b>Total Quantity in no</b>	<b>4.000</b>
10.01 3	OD51351/2022-2023 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required; 12 way (8+36) - three phase double cover (IP 42/43)						
		5					5.000
	<b>Total</b>						<b>5.000</b>
						<b>Total Quantity in no</b>	<b>5.000</b>
10.01 4	OD51356/2022-2023 Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required. 200A TP&N						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.01 5	OD51358/2022-2023 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall ,making good the damages, colour washing etc. as required;8 way (8+24) - three phase double cover (IP 42/43						
		6					6.000
	<b>Total</b>						<b>6.000</b>
						<b>Total Quantity in no</b>	<b>6.000</b>
10.01 6	OD51361/2022-2023 Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc.as required;160A TP &N						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.01 7	OD51444/2022-2023 Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc.as required;100A TP&N						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
10.01 8	OD51484/2022-2023 :Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel,making connections, etc.as required;125A TP&N						
		1					1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.01 9	OD51523/2022-2023 :Supply, conveyance and fixing the following types & current rated control gears & switchgears&lt;br&gt;conforming to IS 13947 suitable for 440 V, 50 Hz, AC supply in the existing panel assembly as required.&lt;br&gt;125A,&lt;br&gt;35/36 kA (Ics=100%Icu), 3 pole, current limiting type MCCB with microprocessor based release with overload setting&lt;br&gt;of 50 - 100% having adjustable OL & SC						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.02 0	OD51547/2022-2023 :Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, &ldquo;C&rdquo;&lt;br&gt;curve, miniature circuit&lt;br&gt;breaker suitable for inductive load of&lt;br&gt;following poles in the existing MCB DB complete with&lt;br&gt;connections,&lt;br&gt;testing and commissioning etc. as required.&lt;br&gt;Triple pole						
		35					35.000
	<b>Total</b>						<b>35.000</b>
						<b>Total Quantity in no</b>	<b>35.000</b>
10.02 1	OD51567/2022-2023 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB&lt;br&gt;complete with connections, testing and commissioning etc. as required.&lt;br&gt;40 amps						
		4					4.000
	<b>Total</b>						<b>4.000</b>
						<b>Total Quantity in no</b>	<b>4.000</b>
10.02 2	OD51579/2022-2023 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB&lt;br&gt;complete with connections, testing and commissioning etc. as required.&lt;br&gt;63 amps						
		4					4.000
	<b>Total</b>						<b>4.000</b>

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
<b>Total Quantity in no</b>							<b>4.000</b>
10.02 3	OD51619/2022-2023 Supply, conveyance and fixing the following types & current rated control gears & switchgears conforming to IS 13947 suitable for 440 V, 50 Hz, AC supply in the existing panel assembly as required; 16 A-100A, 16 kA (Ics=100%Icu), 3 pole, current limiting type MCCB having thermal setting range of 80 - 100% with thermal magnetic release having adjustable OL						
		1					1.000
<b>Total</b>							<b>1.000</b>
<b>Total Quantity in no</b>							<b>1.000</b>
10.02 4	OD51649/2022-2023 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; 4 X 16 sq. mm + 2 X 6 sq. mm earth wire						
		1	195.000				195.000
<b>Total</b>							<b>195.000</b>
<b>Total Quantity in no</b>							<b>195.000</b>
10.02 5	OD51701/2022-2023 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.						
		1	110.000				110.000
<b>Total</b>							<b>110.000</b>
<b>Total Quantity in no</b>							<b>110.000</b>
10.02 6	OD51707/2022-2023 Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.						
		3					3.000
<b>Total</b>							<b>3.000</b>
<b>Total Quantity in no</b>							<b>3.000</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
10.02 7	OD51713/2022-2023 :Installation, testing and commissioning of pre-wired, fluorescent&lt;br&gt;fitting / compact fluorescent&lt;br&gt;fitting of all types, complete with all&lt;br&gt;accessories and tube/lamp etc. directly on ceiling/wall,&lt;br&gt;including&lt;br&gt;connections with 1.5 sq. mm FRLS PVC insulated, copper&lt;br&gt;conductor, single core cable and&lt;br&gt;earthing etc. as required.						
		76					76.000
	<b>Total</b>						<b>76.000</b>
						<b>Total Quantity in no</b>	<b>76.000</b>
10.02 8	OD51725/2022-2023 :Installation, testing and commissioning of ceiling fan, including&lt;br&gt;wiring the down rods of&lt;br&gt;standard length (upto 30 cm) with 1.5&lt;br&gt;sq. mm FRLS PVC insulated, copper conductor, single core&lt;br&gt;etc.&lt;br&gt;as required.						
		20					20.000
	<b>Total</b>						<b>20.000</b>
						<b>Total Quantity in no</b>	<b>20.000</b>
10.02 9	OD51741/2022-2023 :Installation of exhaust fan in the existing opening, including&lt;br&gt;making good the damage,&lt;br&gt;connection, testing, commissioning&lt;br&gt;etc. as required.&lt;br&gt;510 mm sweep						
		10					10.000
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in no</b>	<b>10.000</b>
10.03 0	OD51756/2022-2023 :Providing and fixing following rating and breaking capacity and&lt;br&gt;pole MCCB with&lt;br&gt;thermomagnetic release and terminal&lt;br&gt;spreaders in existing cubicle panel board including drilling holes&lt;br&gt;in&lt;br&gt;cubicle panel, making connections, etc. as required.&lt;br&gt;100 A, 30kA, FPMCCB						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
10.03 1	OD51768/2022-2023 :Supplying and fixing following way, single pole and neutral, sheet&lt;br&gt;steel, MCB distribution&lt;br&gt;board, 240 V, on surface/ recess,&lt;br&gt;complete with tinned copper bus bar, neutral bus bar, earth Actual rate = 2440.62/no For avoiding CPOH 16% = 2440.62*.84 = 2050.12/no bar,&lt;br&gt;din bar,&lt;br&gt;interconnections, powder painted including earthing etc.&lt;br&gt;as required. (But without MCB/RCCB/Isolator)&lt;br&gt;12&lt;br&gt;way double door =2Nos						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.03 2	OD51802/2022-2023 Supplying and fixing following way, single pole and neutral, sheet&lt;br&gt;steel, MCB distribution&lt;br&gt;board, 240 V, on surface/ recess,&lt;br&gt;complete with tinned copper bus bar, neutral bus bar, earth bar,&lt;br&gt;din bar,&lt;br&gt;interconnections, powder painted including earthing etc.&lt;br&gt;as required. (But without MCB/RCCB/Isolator)&lt;br&gt;8 way double door						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.03 3	OD51834/2022-2023 :Supplying and fixing following way, horizontal type three pole&lt;br&gt;and neutral, sheet steel, MCB&lt;br&gt;distribution board, 415 V, on&lt;br&gt;surface/ recess, complete with tinned copper bus bar, neutral&lt;br&gt;bus bar, earth bar,&lt;br&gt;din bar, interconnections, powder painted&lt;br&gt;including earthing etc. as required. (But without&lt;br&gt;MCB/RCCB/&lt;br&gt;Isolator)&lt;br&gt;8 way (4 + 24), Double door=3						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.03	OD51846/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	:Supplying and fixing following way, horizontal type three pole&lt;br&gt;and neutral, sheet steel, MCB&lt;br&gt;distribution board, 415 V, on&lt;br&gt;surface/ recess, complete with tinned copper bus bar, neutral&lt;br&gt;bus bar, earth bar,&lt;br&gt;din bar, interconnections, powder painted&lt;br&gt;including earthing etc. as required. (But without&lt;br&gt;MCB/RCCB/&lt;br&gt;Isolator)&lt;br&gt;6 way (4 + 18), Double door						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
10.03 5	OD51871/2022-2023 :Supplying and fixing of following ways surface/ recess mounting,&lt;br&gt;vertical type, 415 V, TPN MCB distribution board of sheet steel,&lt;br&gt;dust protected, duly powder painted, inclusive of 200 A, tinned&lt;br&gt;copper&lt;br&gt;bus bar, common neutral link, earth bar, din bar for&lt;br&gt;mounting MCBs (but without MCBs and incomer) as&lt;br&gt;required.&lt;br&gt;(Note : Vertical type MCB TPDB is normally used where 3 phase&lt;br&gt;outle4 way &lt;br&gt;8 way (4 + 24),&lt;br&gt;Double door=2&lt;br&gt;						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.03 6	OD51875/2022-2023 :Supplying and fixing of following ways surface/ recess mounting,&lt;br&gt;vertical type, 415 V, TPN&lt;br&gt;MCB distribution board of sheet steel,&lt;br&gt;dust protected, duly powder painted, inclusive of 200 A, tinned&lt;br&gt;copper&lt;br&gt;bus bar, common neutral link, earth bar, din bar for&lt;br&gt;mounting MCBs (but without MCBs and incomer) as&lt;br&gt;required.&lt;br&gt;(Note : Vertical type MCB TPDB is normally used where 3 phase&lt;br&gt;outlets are required.)&lt;br&gt;4 way (4&lt;br&gt;+ 12), Double door						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.03	OD51884/2022-2023						



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Triple pole=24Nos						
		6					6.000
	<b>Total</b>						<b>6.000</b>
						<b>Total Quantity in no</b>	<b>6.000</b>
10.03 8	OD51889/2022-2023 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. single pole						
		50					50.000
	<b>Total</b>						<b>50.000</b>
						<b>Total Quantity in no</b>	<b>50.000</b>
10.03 9	OD51897/2022-2023 :Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40A						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.04 0	OD51916/2022-2023 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63A						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
10.04	OD51919/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	:Supplying and fixing following rating, four pole, (three phase&lt;br&gt;and neutral), 415 V, residual&lt;br&gt;current circuit breaker (RCCB),&lt;br&gt;having a sensitivity current 30 mA in the existing MCB DB&lt;br&gt;complete with&lt;br&gt;connections, testing and commissioning etc. as&lt;br&gt;required.&lt;br&gt;63A							
	.	2					2.000	
	<b>Total</b>						<b>2.000</b>	
		<b>Total Quantity in no</b>						<b>2.000</b>
10.04 2	OD51923/2022-2023 Laying of one number additional PVC insulated and PVC&lt;br&gt;sheathed / XLPE power cable of 1.1&lt;br&gt;kV grade of following size&lt;br&gt;direct in ground in the same trench in one tier horizontal formation&lt;br&gt;including&lt;br&gt;excavation, sand cushioning, protective covering and&lt;br&gt;refilling the trench etc. as required.&lt;br&gt;Above 35 sq. mm&lt;br&gt;and upto 95 sq. mm							
	.	1	200.000				200.000	
	<b>Total</b>						<b>200.000</b>	
		<b>Total Quantity in no</b>						<b>200.000</b>
10.04 3	OD51925/2022-2023 :Laying of one number additional PVC insulated and PVC&lt;br&gt;sheathed / XLPE power cable of 1.1&lt;br&gt;kV grade of following size&lt;br&gt;direct in ground in the same trench in one tier horizontal formation&lt;br&gt;including&lt;br&gt;excavation and refilling the trench etc. as required,&lt;br&gt;but excluding sand cushioning and protective&lt;br&gt;covering.&lt;br&gt;Up to 35 sq.mm=150metre							
	.	1	50.000				50.000	
	<b>Total</b>						<b>50.000</b>	
		<b>Total Quantity in no</b>						<b>50.000</b>
10.04 4	OD51927/2022-2023 :Laying of one number additional PVC insulated and PVC&lt;br&gt;sheathed / XLPE power cable of&lt;br&gt;1.1 kV grade of following size&lt;br&gt;direct in ground in the same trench in one tier horizontal formation&lt;br&gt;including&lt;br&gt;excavation and refilling the trench etc. as required,&lt;br&gt;but excluding sand cushioning and protective&lt;br&gt;covering.&lt;br&gt;Above 35 sq. mm and upto 95 sq. mm							
	.	1	50.000				50.000	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>50.000</b>
						<b>Total Quantity in no</b>	<b>50.000</b>
10.04 5	OD51933/2022-2023 Erection of metallic pole of following length in&lt;br&gt;cement concrete&lt;br&gt;1:3:6 (1 cement : 3&lt;br&gt;coarse sand : 6 graded stone aggregate&lt;br&gt;40&lt;br&gt;mm nominal size) foundation including&lt;br&gt;excavation and refilling&lt;br&gt;etc. as&lt;br&gt;required.&lt;br&gt;Above 6.5 meter and upto 8.0&lt;br&gt;meter						
	.	10					10.000
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in no</b>	<b>10.000</b>
10.04 6	OD51977/2022-2023 Supplying and embedding following dia G.I. pipe (medium class)&lt;br&gt;in pole collar/ foundation&lt;br&gt;(during casting) for cable entry including&lt;br&gt;bending the pipe to the required shape complete as required.&lt;br&gt;32&lt;br&gt;mm dia						
	.	10					10.000
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in metre</b>	<b>10.000</b>
10.04 7	OD51978/2022-2023 Supply and providing imported vertical air terminal with 12 needdled nickel coated spike&lt;br&gt;receiver,supporting rod and stand icluding all accessories as required with possitive absorber(45 metre receiving&lt;br&gt;capacity),supply and laying required quantity of 25x3mm GI strip through epoxy resin cast support,down conductor&lt;br&gt;through wall,vertical run/through parapet,supply and installation of test joint box fabricated out of 16 SWG CRCA&lt;br&gt;sheets,supply and laying required quantity of 32x6mm GI strip through ground including earth work excavation back&lt;br&gt;filling and jointing etc complete.						
	.	1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
10.04	OD51979/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply and fitting 1200mm sweep ceiling fan with all accessories as required						
	.	20					20.000
	<b>Total</b>						<b>20.000</b>
						<b>Total Quantity in no</b>	<b>20.000</b>
10.04 9	OD51980/2022-2023 Supply and fitting exhaust fan with all accessories as required(Heavy duty)						
	.	10					10.000
	<b>Total</b>						<b>10.000</b>
						<b>Total Quantity in no</b>	<b>10.000</b>
10.05 0	OD51981/2022-2023 Supply and fitting 20 W LED Tube fittings with all accessories as required						
	.	76					76.000
	<b>Total</b>						<b>76.000</b>
						<b>Total Quantity in no</b>	<b>76.000</b>
10.05 1	OD51982/2022-2023 Supply and laying 2x4 sq.mm alluminium UG cable including excavation of trench and back filling pit						
	.	1	100.000				100.000
	<b>Total</b>						<b>100.000</b>
						<b>Total Quantity in metre</b>	<b>100.000</b>
10.05 2	OD51984/2022-2023 Supply and laying 3.5x35sq.mm PVC Al UG cable including excavation of trench and back filling pit Supply and laying 3.5x35sq.mm PVC Al UG cable including excavation of trench and back filling pit						
	.	1	60.000				60.000
	<b>Total</b>						<b>60.000</b>
						<b>Total Quantity in metre</b>	<b>60.000</b>
10.05	OD51988/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply conveyance ,installation testing and commissioning of 36/40 W LED street/Yard light out put greater than 105 lumen/watts 4000-6000K with IP66 protection with LED chip make cree/Lumiled/Nichea with powerfactor greater than 0.95 at full load ,internal surge protection up to 8 kv and alluminium pressure die cast powder coated housing acrylic cover complete with THD less than 10% power factor greater than 0.98 ROHS compliant duly wired up for use on 230v AC supply.Driver compartment should be separately accessible for maintanance(LM 79&80 Certificate from NABL accredited third party lab produced mentioning chip manufacturer)						
		20					20.000
	<b>Total</b>						<b>20.000</b>
						<b>Total Quantity in no</b>	<b>20.000</b>
10.05 4	OD51989/2022-2023 Supply and laying 4x16sq.mm alluminium UG cable including excavation of trench and back filling pit						
		1	40.000				40.000
	<b>Total</b>						<b>40.000</b>
						<b>Total Quantity in metre</b>	<b>40.000</b>
10.05 5	OD51991/2022-2023 Supply and providing the following safety items approved by Kerala Electrical Inspectorate and relevant standards.11kv rubber mat=8set 11kv rubber gloves=2 pair 11kv danger board=10Nos 9ltre capacity fire bucket=3Nos First aid box=2Nos. shock treatment chart=4set 5kg fire estingusher=12 Nos						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in set</b>	<b>1.000</b>
11	Providing and setting up Laboratory						
11.00	OD51992/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Provision for setting physical quality testing Laboratory including chemicals, lab equipments, furniture etc such as Refrigerator 200 Ltrs, Jar test apparatus, PH meter, Turbidity meter (of approved manufacturer with relevant IS standards), class B glass wares (Borosil) such as Conical Flask 250 ml-5 Nos, Standard Flask 100 ml-5 Nos, Standard Flask 250 ml-5 Nos, Standard Flask 500 ml, RC test kit, ET solution 1000ml, Ammonia-500ml, Armed Chair -6 Nos, 2 nos Office table with drawers on both ends, Ordinary Chairs (Thermoplastic)-4 Nos of approved makers, Steel Almarah with locker-1 No and coat of teak wood 1 No each.						
		1					1.000
	<b>Total</b>						<b>1.000</b>
	<b>Total Quantity in L.S</b>						<b>1.000</b>
12	Operation and Maintenance charges						
12.00	OD52007/2022-2023						
1	Operation and maintenance of WTP during guarantee period						
		12	30.000				360.000
	<b>Total</b>						<b>360.000</b>
	<b>Total Quantity in Day</b>						<b>360.000</b>
12.00	OD52009/2022-2023						
2	Supply and delivery of Alum (or as per condition)						
		12	30.000			0.0500 00	18.000
	<b>Total</b>						<b>18.000</b>
	<b>Total Quantity in MT</b>						<b>18.000</b>
12.00	OD52025/2022-2023						
3	Supply and delivery of Hydrated lime as per specification at dosage (or as per condition)						
		12	30.000			0.0380 00	13.680
	<b>Total</b>						<b>13.680</b>
	<b>Total Quantity in MT</b>						<b>13.680</b>
13	Water supply and Sanitary Arrangements						
13.00	50.18.7.2.1						
1	Providing and fixing PVC pipes, fittings including fixing the pipe with claps at 1.00 metre spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 20 mm dia 12Kgf/cm <sup>2</sup> - Internal work - Exposed on wall						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		1	50.000				50.000
	<b>Total</b>						<b>50.000</b>
						<b>Total Quantity in metre</b>	<b>50.000</b>
13.00 2	50.18.7.4.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm2- Internal work - Exposed on wall						
		1	50.000				50.000
	<b>Total</b>						<b>50.000</b>
						<b>Total Quantity in metre</b>	<b>50.000</b>
13.00 3	50.18.7.5.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm2- Internal work- exposed on wall						
		1	20.000				20.000
	<b>Total</b>						<b>20.000</b>
						<b>Total Quantity in metre</b>	<b>20.000</b>
13.00 4	50.18.8.2.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chased and making good the wall etc. 20 mm pipe 12 Kgf/cm2						
		1	50.000				50.000
	<b>Total</b>						<b>50.000</b>
						<b>Total Quantity in metre</b>	<b>50.000</b>
13.00 5	50.18.8.1.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm2						
	15 mm pvc						
	bathroom and laboratory	1	15.000				15.000
	<b>Total</b>						<b>15.000</b>

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
<b>Total Quantity in metre</b>							<b>15.000</b>
13.00 6	18.57.1 Providing and fixing PTMT, push cock of approved quality and colour.15 mm nominal bore, 98 mm long, weighing not less than 75 gms						
		2					2.000
<b>Total</b>							<b>2.000</b>
<b>Total Quantity in each</b>							<b>2.000</b>
13.00 7	50.17.1.1 Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.						
		2					2.000
<b>Total</b>							<b>2.000</b>
<b>Total Quantity in no</b>							<b>2.000</b>
13.00 8	50.17.1.5 Supplying and fixing CP Health Faucet superior quality ( Jagur or equivalent make ) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.						
		1					1.000
<b>Total</b>							<b>1.000</b>
<b>Total Quantity in no</b>							<b>1.000</b>
13.00 9	17.7.11 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:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap						
		1					1.000
<b>Total</b>							<b>1.000</b>
<b>Total Quantity in each</b>							<b>1.000</b>
13.01 0	17.2.1 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid closet						
	closet	1					1.000



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in each</b>	<b>1.000</b>
13.01 1	OD79304/2022-2023 Supply, installation and commissioning of PVC septic tanks(10-15 flushes/day) and interconnection with man hole including cost of pipes specials, labour etc complete						
	septic tank						
	septic tank	1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
13.01 2	17.7.7 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: White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap						
	wash basin toilet						
	wash basin toilet	1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in each</b>	<b>1.000</b>
13.01 3	17.28.1.1 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia						
	.						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in each</b>	<b>2.000</b>
13.01 4	17.28.1.2 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 40 mm dia						
	.						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in each</b>	<b>2.000</b>
13.01 5	17.28.2.1 Flexible pipe 32 mm dia						
	.						
		2					2.000
	<b>Total</b>						<b>2.000</b>

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total Quantity in each</b>						<b>2.000</b>
13.01 6	17.35.1.2 Providing and fixing soil, waste and vent pipes: 100 mm diaCentrifugally cast ( spun) iron socket & spigot ( S & S ) pipe as per IS : 3989						
		1	8.000				8.000
	<b>Total</b>						<b>8.000</b>
	<b>Total Quantity in metre</b>						<b>8.000</b>
13.01 7	17.60.1.1 Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outletSand cast iron S & S as per IS : 3989						
		2					2.000
	<b>Total</b>						<b>2.000</b>
	<b>Total Quantity in each</b>						<b>2.000</b>
13.01 8	18.33.1 Constructing masonry chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 ( 1 cement:4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 ( 1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:With common burnt clay F.P.S (non modular) bricks of class designation 7.5						
		1					1.000
	<b>Total</b>						<b>1.000</b>
	<b>Total Quantity in each</b>						<b>1.000</b>
13.01 9	18.34.1 Constructing masonry chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 ( 1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix ( 1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 ( 1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:With common burnt clay F.P.S. (non modular) bricks of class designation 7.5						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	scour valve chamber						
	for clarifier scour	1					1.000
	<b>Total</b>						<b>1.000</b>
	<b>Total Quantity in each</b>						<b>1.000</b>
13.02 0	OD52106/2022-2023 Supplying, covey ,fitting , and fixing of 200 mm Stainless Steel shower set with all accessories&lt;br&gt;connecting Brass threaded reducer,Brass threaded tee ,Brass threaded elbow etc of approved make with all&lt;br&gt;necessary accessories,including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary&lt;br&gt;fittings as required,jointing materials in any position for connecting the angle valve ,taps ,Shower, etc as per the&lt;br&gt;direction of Departmental officers. ( No separate payment will be made for accessories, specials.						
		1					1.000
	<b>Total</b>						<b>1.000</b>
	<b>Total Quantity in no</b>						<b>1.000</b>
13.02 1	OD52111/2022-2023 Supplying, covey ,and fixing 40 mm G.M ball valve with polythene float for 40 mm connection&lt;br&gt;(heavy quality) including cost of all necessary fittings as required,jointing materials in any position as per the direction&lt;br&gt;of Departmental officers. No separate payment will be made for accessories, specials.						
		1					1.000
	<b>Total</b>						<b>1.000</b>
	<b>Total Quantity in no</b>						<b>1.000</b>
13.02 2	OD52113/2022-2023 :Supplying, covey ,and fixing 32 mm G.M. ball valve with polythene float for 32 mm&lt;br&gt;connection(heavy quality including cost of all necessary fittings as required,jointing materials in any position as per&lt;br&gt;the direction of Departmental officers. No separate payment will be made for accessories, specials.						
		1					1.000
	<b>Total</b>						<b>1.000</b>
	<b>Total Quantity in no</b>						<b>1.000</b>
13.02	OD52114/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying, covey ,and fixing of 25 mm G.M. ball valve with polythene float for 25 mm connection (heavy quality) including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials.						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
13.02 4	OD52117/2022-2023 Supplying, covey and fixing of G.M. ball valve with polythene float for 20 mm connection (heavy quality) complete in all respect including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials.						
		1					1.000
	<b>Total</b>						<b>1.000</b>
						<b>Total Quantity in no</b>	<b>1.000</b>
13.02 5	OD52104/2022-2023 Supplying, covey ,fitting , and fixing of 15 mm Stainless Steel tap set with all accessories connecting Brass threaded reducer,Brass threaded tee ,Brass threaded elbow etc of approved make with all necessary accessories,including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required,jointing materials in any position for connecting the angle valve ,taps ,Shower, etc as per the direction of Departmental officers. ( No separate payment will be made for accessories, specials.						
		2					2.000
	<b>Total</b>						<b>2.000</b>
						<b>Total Quantity in no</b>	<b>2.000</b>
13.02 6	OD52099/2022-2023 Supplying, covey ,fitting and fixing 15 mm chrome plated angle valve with branch connection of approved make (As per ASTM D 2467, Schedule 80). complete in all respect including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.						
		5					5.000
	<b>Total</b>						<b>5.000</b>
						<b>Total Quantity in no</b>	<b>5.000</b>
14	Sump cum Pump House						
14.00	2.9.3						
1	Excavation work 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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Hard rock (blasting prohibited)						
	excavation for footing						
	columns	16	1.400	1.400	1.200		37.632
	columns	4	1.400	1.400	3.300		25.872
	<b>Total</b>						<b>63.504</b>
						<b>Total Quantity in cum</b>	<b>63.504</b>
14.00	2.6.1						
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil						
	.						
	sump - E/W	1	15.000	4.000	0.800		48.000
		1	15.300	4.200	0.800		51.408
		1	15.250	2.600	0.250		9.913
	<b>Total</b>						<b>109.321</b>
						<b>Total Quantity in cum</b>	<b>109.321</b>
14.00	2.7.3						
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. Hard rock (blasting prohibited)						
	.						
	SUMP - E/W	1	15.200	4.000	1.370		83.296
		1	15.300	4.200	1.370		88.036
	<b>Total</b>						<b>171.332</b>
						<b>Total Quantity in cum</b>	<b>171.332</b>
14.00	OD72905/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete						
		80	1.000				80.000
	<b>Total</b>						<b>80.000</b>
	<b>Total Quantity in no</b>						<b>80.000</b>
14.00 5	4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)						
	footing						
	leveling course	20	1.200	1.200	0.300		8.640
	sump base	1	12.700	15.700	0.150		29.909
	<b>Total</b>						<b>38.549</b>
	<b>Total Quantity in cum</b>						<b>38.549</b>
14.00 6	5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level						
	rcc						
	footing step 1	20	1.000	1.000	0.300		6.000
	footing step 2	20	1.120		0.400/3		2.987
	column up to floor level	20	0.300	0.300	0.750		1.350
	<b>Total</b>						<b>10.337</b>
	<b>Total Quantity in cum</b>						<b>10.337</b>
14.00 7	5.33.2 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	rcc						
	sump column	20	0.300	0.300	2.750		4.950
	sump bottom floor	1	12.700	15.700	0.300		59.817
	sump roof slab	1	12.900	15.900	0.150		30.767
	sump rcc wall	6	3.700	0.300	2.750		18.315
		2	3.930	0.300	2.750		6.485
		2	4.160	0.300	2.750		6.864
		2	2.640	0.300	2.750		4.356
	pump house columns	20	0.300	0.300	2.650		4.770
	pump house rcc lintel	2	12.700	0.220	0.150		0.838
		2	15.260	0.220	0.150		1.007
	pump house sun shade	2	13.900	0.600	0.150/2		1.251
		2	16.900	0.600	0.150/2		1.521
	pump house top beam	5	12.700	0.300	0.250		4.763
		4	14.200	0.300	0.250		4.260
	pump house roof slab	1	12.900	15.900	0.200		41.022
	sump rcc steps	19	1.500	0.300	0.150/2		0.641
	pump house rcc steps	19	1.500	0.300	0.150/2		0.641
	pump house rcc step slabs	1	3.800	4.200	0.150		2.394
	panel room columns	20	0.300	0.300	2.650		4.770
	panel room rcc lintel	2	12.700	0.220	0.150		0.838
		2	15.260	0.220	0.150		1.007
	panel room sun shade	2	13.900	0.600	0.150/2		1.251
		2	16.900	0.600	0.150/2		1.521
	panel room top beam	5	12.700	0.300	0.250		4.763
		4	15.700	0.300	0.250		4.710
	panel room roof slab	1	12.900	15.900	0.100		20.511
	sump step column	1	0.300	0.300	1.500		0.135

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<b>Total</b>						<b>234.168</b>
						<b>Total Quantity in cum</b>	<b>234.168</b>
14.00 8	5.34.1 Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).						
	item no. 6& 7	1	244.505				244.505
	<b>Total</b>						<b>244.505</b>
						<b>Total Quantity in cum</b>	<b>244.505</b>
14.00 9	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	levelling course(.3*.3)	20	4.800		0.300		28.800
	columns footing (.3*.3)	20	3.600		0.200		14.400
	columns footing (.3*.3)	20	1.200		0.750		18.000
	<b>Total</b>						<b>61.200</b>
						<b>Total Quantity in sqm</b>	<b>61.200</b>
14.01 0	5.9.2 Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, butresses, plinth and string courses etc.						
	shuttering						
	sump wall	4	11.500		2.750		126.500
		4	14.200		2.750		156.200
	<b>Total</b>						<b>282.700</b>
						<b>Total Quantity in sqm</b>	<b>282.700</b>
14.01 1	5.9.3 Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform						
	centering and shuttering						
	sump roof slab	1	12.900	15.900			205.110
	sump roof slab deduction	-1	1.500	1.500			-2.250
	pump house roof slab	1	12.900	15.900			205.110



SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	pump house roof slab deduction	-1	1.500	1.500			-2.250
	panel room roof slab	1	12.900	15.900			205.110
	<b>Total</b>						<b>610.830</b>
						<b>Total Quantity in sqm</b>	<b>610.830</b>
14.01 2	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers						
	centering and shuttering						
	sump top beam	9	11.450		0.300		30.915
		9	14.200		0.300		38.340
	panel room top beam	10	12.700		0.300		38.100
		8	14.200		0.300		34.080
	panel room top beam	10	12.700		0.300		38.100
		8	14.200		0.300		34.080
	<b>Total</b>						<b>213.615</b>
						<b>Total Quantity in sqm</b>	<b>213.615</b>
14.01 3	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts						
	centering and shuttering						
	sump columns(.3*.3)	20	1.200		2.750		66.000
	pump house columns(.3*.3)	20	1.200		2.650		63.600
	panel room columns(.3*.3)	20	1.200		2.650		63.600
	<b>Total</b>						<b>193.200</b>
						<b>Total Quantity in sqm</b>	<b>193.200</b>
14.01 4	5.9.19 Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges						
	centering and shuttering						
	pumb house sunshed	2	13.900	0.600			16.680
		2	13.900		0.150		4.170
		2	16.900	0.600			20.280
		2	16.900		0.150		5.070

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	panel room sunshed	2	13.900	0.600			16.680
	panel room sunshed	2	13.900		0.150		4.170
	panel room sunshed	2	16.900	0.600			20.280
	panel room sunshed	2	16.900		0.150		5.070
	<b>Total</b>						<b>92.400</b>
						<b>Total Quantity in sqm</b>	<b>92.400</b>
14.01 5	5.9.7 Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings ) except spiral - staircases)						
	centering and shuttering						
	sump rcc steps	19	1.500	0.300			8.550
	sump rcc step slab	1	3.800	4.200			15.960
	pump house rcc steps	19	1.500	0.300			8.550
	pump house rcc step slabs	1	3.800	4.200			15.960
	<b>Total</b>						<b>49.020</b>
						<b>Total Quantity in sqm</b>	<b>49.020</b>
14.01 6	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more						
	steel						
	100kg/m3	1	339.206			100.00 0000	33920.60 0
	<b>Total</b>						<b>33920.60 0</b>
						<b>Total Quantity in kilogram</b>	<b>33920.60 0</b>
14.01 7	50.6.1.2 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.						
	brick masonry						
	pumb house wall	2	11.440	0.220	2.750		13.842
		2	14.440	0.220	2.750		17.472

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	panel room brick wall	2	11.200	0.220	2.750		13.552	
		2	14.200	0.220	2.750		17.182	
	rolling shutter	-1	1.500	0.220	2.900		-0.957	
	ventilation	-13	0.600	0.220	0.450		-0.772	
	rolling shutter	-1	1.500	0.220	2.900		-0.957	
	window	-13	1.000	0.220	1.500		-4.290	
	lintel	-1	56.560	0.220	0.150		-1.866	
	<b>Total</b>						<b>53.206</b>	
	<b>Total Quantity in cum</b>							<b>53.206</b>
14.01	13.1.1							
8	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)							
	PLASTERING							
	sump rcc wall	4	12.700		2.750		139.700	
	sump rcc wall	4	15.700		2.750		172.700	
	sump top colums	6	0.300*4		2.750		19.800	
	pumb house wall	4	12.700	3.000			152.400	
		4	15.700	3.000			188.400	
	top beam	4	12.700	0.300			15.240	
		9	12.700	0.300			34.290	
		4	13.900	0.300			16.680	
		6	13.900	0.300			25.020	
	pumb house sun shade	2	13.900	0.600			16.680	
		2	13.900	0.100			2.780	
	pumb house sun shade	2	16.900	0.600			20.280	
		2	16.900	0.100			3.380	
	panel room wall	4	12.700		2.900		147.320	
		4	15.700		2.900		182.120	
	columns	6	.300*4		2.900		20.880	
	sunshade	2	13.900	0.600			16.680	
		2	13.900		0.150		4.170	
		2	16.900	0.600			20.280	
		2	16.900		0.150		5.070	
	roof slab	2	12.900	15.900			410.220	
	roof slab	2	12.900		0.100		2.580	
	roof slab	2	15.900		0.100		3.180	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	sump door	-1	1.500		2.750		-4.125
	pumb house shutter	-1	1.500		3.000		-4.500
	panel house shutter	-1	1.500		3.000		-4.500
	pumb house window	-13	1.000		1.500		-19.500
	panel room window	-13	1.000		1.500		-19.500
	sump step column	1	0.300*4		1.500		1.800
	<b>Total</b>						<b>1569.525</b>
						<b>Total Quantity in sqm</b>	<b>1569.525</b>
14.01 9	13.16.1 6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand) PLASTERING						
	sump roof slab	2	12.900	15.900			410.220
	pumb house roof slab	2	12.900	15.900			410.220
	panel room roof slab	2	12.900	15.900			410.220
	<b>Total</b>						<b>1230.660</b>
						<b>Total Quantity in sqm</b>	<b>1230.660</b>
14.02 0	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer cement primer						
	sump rcc wall	2	12.700		2.750		69.850
		2	15.700		2.750		86.350
	pumb house wall	4	12.700	3.000			152.400
		4	15.700	3.000			188.400
		9	12.700	0.300			34.290
		6	14.200	0.300			25.560
	pumb house colums	6	0.300*4	2.750			19.800
	pumb house sun shade	4	13.900	0.600			33.360
		2	13.900	0.100			2.780
	pumb house sun shade horizontal	4	16.900	0.600			40.560
		2	16.900	0.100			3.380

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	panel room wall	4	12.700		2.900		147.320
		4	15.700		2.900		182.120
	columns	6	.300*4		2.900		20.880
	sunshade	2	13.900	0.600			16.680
	roof slab	2	12.900	15.900			410.220
	roof slab	2	12.900		0.100		2.580
	roof slab	2	15.900		0.100		3.180
	sump door	-1	1.500		2.750		-4.125
	pumb house shutter	-1	1.500		3.000		-4.500
	panel house shutter	-1	1.500		3.000		-4.500
	pumb house window	-13	1.000		1.500		-19.500
	panel room window	-13	1.000		1.500		-19.500
	sump step column	1	0.300*4		1.500		1.800
	<b>Total</b>						<b>1389.385</b>
						<b>Total Quantity in sqm</b>	<b>1389.385</b>
14.02	13.44.1						
1	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)						
	water proofing						
	sump inside wall	2	12.200		2.750		67.100
		2	15.200		2.750		83.600
	sump inside floor	1	12.200	15.200			185.440
	<b>Total</b>						<b>336.140</b>
						<b>Total Quantity in sqm</b>	<b>336.140</b>
14.02	13.60.1						
2	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	.						
	sump rcc wall	2	12.700		2.750		69.850
		2	15.700		2.750		86.350
	pumb house wall	4	12.700	3.000			152.400
		4	15.700	3.000			188.400
		9	12.700	0.300			34.290
		6	14.200	0.300			25.560

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	pumb house colums	6	0.300*4	2.750			19.800
	pumb house sun shade	4	13.900	0.600			33.360
		2	13.900	0.100			2.780
	pumb house sun shade horizontal	4	16.900	0.600			40.560
		2	16.900	0.100			3.380
	panel room wall	4	12.700		2.900		147.320
		4	15.700		2.900		182.120
	columns	6	.300*4		2.900		20.880
	sunshade	2	13.900	0.600			16.680
	roof slab	2	12.900	15.900			410.220
	roof slab	2	12.900		0.100		2.580
	roof slab	2	15.900		0.100		3.180
	sump door	-1	1.500		2.750		-4.125
	pumb house shutter	-1	1.500		3.000		-4.500
	panel house shutter	-1	1.500		3.000		-4.500
	pumb house window	-13	1.000		1.500		-19.500
	panel room window	-13	1.000		1.500		-19.500
	sump step column	1	0.300*4		1.500		1.800
	<b>Total</b>						<b>1389.385</b>
						<b>Total Quantity in sqm</b>	<b>1389.385</b>
14.02 3	10.6.1 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.25 mm M.S. laths with 1.25 mm thick top cover						
	rolling shutter						
	rolling shutter	2	2.000	3.000			12.000
	<b>Total</b>						<b>12.000</b>
						<b>Total Quantity in sqm</b>	<b>12.000</b>
14.02	21.1.1.3						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	<p>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):  For fixed portion Polyester powder coated aluminium ( minimum thickness of polyester powder coating 50 micron )</p>						
	pumb house window w2	13	6.000			0.5800 00	45.240
	panel room window w2	13	6.000			0.5800 00	45.240
	<b>Total</b>						<b>90.480</b>
	<b>Total Quantity in kg</b>						<b>90.480</b>
14.02 5	21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness						
	window w3	28	0.800		1.450		32.480
	<b>Total</b>						<b>32.480</b>
	<b>Total Quantity in sqm</b>						<b>32.480</b>
14.02 6	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 ).						
	pumb house w2	13	1.000		1.500		19.500
	panel room window w2	13	1.000		1.500		19.500
	<b>Total</b>						<b>39.000</b>
	<b>Total Quantity in kg</b>						<b>39.000</b>

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
14.02 7	100.41.33						
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.						
	pump house manhole						
	manhole	6					6.000
	<b>Total</b>						<b>6.000</b>
	<b>Total Quantity in no</b>						<b>6.000</b>
14.02 8	13.71						
	Lettering with black Japan pint of approved brand and manufacture						
	name board						
	name board	500					500.000
	<b>Total</b>						<b>500.000</b>
	<b>Total Quantity in per Letter per cm height</b>						<b>500.000</b>

