

DETAILED ESTIMATE

Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part)
Panchayaths in Idukki District-Package I- Construction of 8.25 MLD WTP.-General Civil Work

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
1	Part I-Aerator						
1.001	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						
	Earth work in excavation - all kind of soil						
	Foundation	1	2.000	2.000	1.200	0.5000 00	2.400
	Total						2.400
	Total Quantity in cum						2.400
1.002	2.7.1 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.Ordinary rock						
	Earth work excavation OR						
	Foundation	1	2.000	2.000	1.200	0.3000 00	1.440
	Total						1.440
	Total Quantity in cum						1.440
1.003	2.7.3 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)						
	Earthwork Excavation hard rock (blasting prohibited)						
	FDN	1	2.000	2.000	1.200	0.2000 00	0.960
	Total						0.960
	Total Quantity in cum						0.960
1.004	4.1.5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
	PCC						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Foundation	1	2.000	2.000	0.100		0.400	
	collection tray	1	(5.25*5.25)-(1*1)		0.100	0.7850 00	2.085	
	Total						2.485	
	Total Quantity in cum							2.485
1.005	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							
	RCC							
	Stepped footing of central shaft	1	1.800	1.800	0.400		1.296	
	Stepped footing of central shaft	1	1.600	1.600	0.300		0.768	
	Stepped footing of central shaft	1	1.000	1.000	0.400		0.400	
	Deduction	-1	(0.45*0.45)	1.000		0.7850 00	-0.159	
	Total						2.305	
	Total Quantity in cum							2.305
1.006	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							
	RCC							
	collection tray	1	(5.25*5.25)-(0.75*0.75)		0.150	0.7850 00	3.179	
	tray 2	1	(4.05*4.05)-(0.75*0.75)		0.150	0.7850 00	1.865	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	tray 3	1	(2.85*2.85)- (0.75*0.75)		0.150	0.7850 00	0.890
	tray 4	1	(1.65*1.65)- (0.75*0.75)		0.150	0.7850 00	0.254
	side wall of collection tray	1	(5.25*5.25)- (5.05*5.05)		0.350	0.7850 00	0.566
	CENTRAL SHAFT	1	(0.75*0.75)- (0.45*0.45)		1.400	0.7850 00	0.396
	Total						7.150
						Total Quantity in cum	7.150
1.007	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).						
	Richer mixes						
		1	2.305+7. 150				9.455
	Total						9.455
						Total Quantity in cum	9.455
1.008	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	Centering and shuttering						
	Stepped footing of central shaft	1	7.200		0.400		2.880
	Stepped footing of central shaft	1	6.400		0.300		1.920
	Stepped footing of central shaft	1	4.000		0.400		1.600
	collection tray	1	5.250		0.150	3.1400 00	2.473
	CENTRAL SHAFT	1	0.450		1.000	3.1400 00	1.413
	Total						10.286
						Total Quantity in sqm	10.286

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
1.009	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.						
	centering and shuttering						
	side wall of collection tray outer	1	5.250		0.500	0.7850 00	2.061
	side wall of collection tray inner	1	5.050		0.350	0.7850 00	1.387
	Total						3.448
	Total Quantity in sqm						3.448
1.010	5.9.6						
	Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts						
	Centering and shuttering						
	outer surface of central shaft	1	0.750		1.400	3.1400 00	3.297
	inner surface of central shaft	1	0.450		1.400	3.1400 00	1.978
	Total						5.275
	Total Quantity in sqm						5.275
1.011	5.9.3						
	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform						
	Trays						
	collection tray	1	(5.25*5.25)- (0.75*0.75)			0.7850 00	21.195
	tray 2	1	(4.05*4.05)- (0.75*0.75)			0.7850 00	12.434
	tray 3	1	(2.85*2.85)- (0.75*0.75)			0.7850 00	5.935
	tray 4	1	(1.65*1.65)- (0.75*0.75)			0.7850 00	1.696
	Total						41.260
	Total Quantity in sqm						41.260

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
1.012	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						
	collection tray.	1	5.250			3.1400 00	16.485
	tray 2	1	4.050			3.1400 00	12.717
	tray 3	1	2.850			3.1400 00	8.949
	tray 4	1	1.650			3.1400 00	5.181
	Total						43.332
							Total Quantity in metre
							43.332
1.013	13.7.1						
	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)						
	plastering						
	outer surface of central shaft	1	0.750		1.400	3.1400 00	3.297
	outer wall of collection tray	1	5.250		0.500	3.1400 00	8.243
	inner wall of collection tray	1	5.050		0.350	3.1400 00	5.550
	collection tray	2	(5.25*5.2 5)- (.75*.75)			0.7850 00	42.390
	tray 2	2	(4.05*4.0 5)- (.75*.75)			0.7850 00	24.869
	tray 3	2	(2.85*2.8 5)- (.75*.75)			0.7850 00	11.869
	tray 4	2	(1.65*1.6 5)- (.75*.75)			0.7850 00	3.391
	collection tray side	1	5.250		0.150	3.1400 00	2.473
	side of tray 2	1	4.050		0.150	3.1400 00	1.908
	side of tray 3	1	2.850		0.150	3.1400 00	1.342
	side of tray 4	1	1.650		0.150	3.1400 00	0.777

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						106.109
						Total Quantity in sqm	106.109
1.014	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 & 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>						
	slurry						
	inner wall of collection tray	1	5.050		0.350	3.1400 00	5.550
	Total						5.550
						Total Quantity in sqm	5.550
1.015	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 & 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>						
	slurry						
	collection tray	1	(5.25*5.25)- (.75*.75)			0.7850 00	21.195
	tray 2	1	(4.05*4.05)- (.75*.75)			0.7850 00	12.434

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	tray 3	1	(2.85*2.85)- (.75*.75)			0.7850 00	5.935
	tray 4	1	(1.65*1.65)- (.75*.75)			0.7850 00	1.696
	Total						41.260
						Total Quantity in sqm	41.260
1.016	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	outer surface of central shaft	1	0.750		1.400	3.1400 00	3.297
	outer wall of collection tray	1	5.250		0.500	3.1400 00	8.243
	collection tray	1	(5.25*5.25)- (.75*.75)			0.7850 00	21.195
	tray 2	1	(4.05*4.05)- (.75*.75)			0.7850 00	12.434
	tray 3	1	(2.85*2.85)- (.75*.75)			0.7850 00	5.935
	tray 4	1	(1.65*1.65)- (.75*.75)			0.7850 00	1.696
	collection tray side	1	5.250		0.150	3.1400 00	2.473
	side of tray 2	1	4.050		0.150	3.1400 00	1.908
	side of tray 3	1	2.850		0.150	3.1400 00	1.342
	side of tray 4	1	1.650		0.150	3.1400 00	0.777
	Total						59.300
						Total Quantity in sqm	59.300
1.017	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						
		1	59.300				59.300
	Total						59.300

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in sqm							59.300
1.018	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					
Steel Reinforcement							
	Steel Reinforcement	1	2.305+7.150			120.000000	1134.600
Total							1134.600
Total Quantity in kilogram							1134.600
1.019	OD228536/2022-2023	DOWEL BARS - Supplying and Providing MS dowel bars of size 25 mm dia of 2.0m long (1m in rock and 1m in concrete) including drilling holes of 30mm dia and filling the gap with cement grout (0.50kg/each) etc.					
dowel bar							
	dowel bar	15					15.000
Total							15.000
Total Quantity in no							15.000
2	Part II-Raw water channel						
2.001	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					
Clearing							
		1	12.000	0.800			9.600
Total							9.600
Total Quantity in sqm							9.600
2.002	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					
For Column footing							
		1	0.600	0.600	0.600	0.500000	0.108
Total							0.108
Total Quantity in cum							0.108
2.003	2.7.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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. Ordinary rock						
	Earth work excavation OR						
	For Column footing	1	0.600	0.600	0.600	0.3000 00	0.065
	Total						0.065
	Total Quantity in cum						0.065
2.004	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)						
	EW						
		1	0.600	0.600	0.600	0.2000 00	0.043
	Total						0.043
	Total Quantity in cum						0.043
2.005	OD175984/2022-2023						
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.						
		3					3.000
	Total						3.000
	Total Quantity in no						3.000
2.006	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)						
	PCC						
	rw pcc	1	12.000	0.800	0.100		0.960
	column pcc	1	0.500	0.500	0.100		0.025
	Total						0.985
	Total Quantity in cum						0.985
2.007	5.33.2						

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 above plinth level upto floor V level						
	RCC						
	COLUMN	1	0.450	0.450	0.500		0.101
	Top and Bottom Slabs	2	12.000	0.800	0.200		3.840
	SIDE Slab	2	12.000	0.200	0.550		2.640
	Total						6.581
	Total Quantity in cum						6.581
2.008	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).						
		6.581					6.581
	Total						6.581
	Total Quantity in cum						6.581
2.009	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	For Column footing						
	COLUMN	1	1.800		0.500		0.900
	Total						0.900
	Total Quantity in sqm						0.900
2.010	5.9.2 Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.						
	Centring and shuttering						
	Side wall	4	12.000		0.550		26.400
	Sides bottom slab	2	12.000		0.200		4.800
	Total						31.200
	Total Quantity in sqm						31.200
2.011	5.9.3						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform						
	centering and shuttering						
	Top Slab	1	12.000	0.800			9.600
	Sides top slab	2	12.000		0.200		4.800
	Total						14.400
	Total Quantity in sqm						14.400
2.012	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						
	Steel reinforcement - Quantity of RCC						
		6.581				100.00 0000	658.100
	Total						658.100
	Total Quantity in kilogram						658.100
2.013	13.7.1						
	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)						
	Plastering in CM 1:3 with floating coat						
	OUTER	1	12.000	0.95+0.8 +0.95			32.400
	INNER	1	12.000	0.55+0.4 +0.55+0. 4			22.800
	Total						55.200
	Total Quantity in sqm						55.200
2.014	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 engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For vertical surface two coats @0.70 kg per sqm						
	Crystalline slurry vertical surface						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	V side wall	2	12.000		0.550		13.200
	Total						13.200
	Total Quantity in sqm						13.200
2.015	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 & 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>						
	Crystalline slurry						
	H Walls	1	12.000	0.400			4.800
	Total						4.800
	Total Quantity in sqm						4.800
2.016	13.43.1						
	<p>Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer</p>						
	Cement primer						
	SIDE WALL..	1	12.000	0.95+0.8 +.095			22.140
	Total						22.140
	Total Quantity in sqm						22.140
2.017	13.60.1						
	<p>Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work</p>						
	Painting						
		22.14					22.140
	Total						22.140
	Total Quantity in sqm						22.140
3	Part III-Flash Mixer						
3.001	2.9.3						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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)						
	EW						
	Flash Mixer	1	3.000	3.000	0.500	0.7850 00	3.533
	Total						3.533
	Total Quantity in cum						3.533
3.002	OD175989/2022-2023						
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.						
	DOWEL BAR						
		9					9.000
	Total						9.000
	Total Quantity in no						9.000
3.003	4.1.5						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
	PCC						
	Flash mixer	1	3.000	3.000	0.100	0.7850 00	0.707
	DEDUCTION FOR PIPE	-1	0.400	0.400	0.100	0.7850 00	-0.013
	Total						0.694
	Total Quantity in cum						0.694
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						
	RCC below plinth level						
	fdn base slab	1	2.800	2.800	0.400	0.7850 00	2.462

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	DEDUCTION FOR PIPE	-1	0.400	0.400	0.400	0.7850 00	-0.050	
	Total						2.412	
	Total Quantity in cum							2.412
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							
	M25 mix above plinth level							
		1	(2.4*2.4)- (2*2)		2.300	0.7850 00	3.178	
	Total						3.178	
	Total Quantity in cum							3.178
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).							
	Richer mixes							
		1	2.412+3. 178				5.590	
	Total						5.590	
	Total Quantity in cum							5.590
3.007	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 reinforcement							
	steel reinforcement	1	2.412+3. 178			120.00 0000	670.800	
	Total						670.800	
	Total Quantity in kilogram							670.800
3.008	5.9.1							
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete							
	For R.C.C Floor							

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	base slab	1	2.800		0.400	3.1400 00	3.517	
	Total						3.517	
	Total Quantity in sqm							3.517
3.009	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.							
	Centering and shuttering							
	OUTER	1	2.400		2.300	3.1400 00	17.333	
	INSIDE	1	2.000		2.300	3.1400 00	14.444	
	Total						31.777	
	Total Quantity in sqm							31.777
3.010	13.1.1							
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							
	.							
	OUTER	1	2.400		2.300	3.1400 00	17.333	
	INSIDE	1	2.000		2.300	3.1400 00	14.444	
	FLOOR	1	2.000	2.000		0.7850 00	3.140	
	DEDUCTION PIPE	-1	0.400	0.400		0.7850 00	-0.126	
	TOP EDGE	1	(2.4*2.4)- (2*2)			0.7850 00	1.382	
	Total						36.173	
	Total Quantity in sqm							36.173
3.011	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 & 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>						
	inner side of wall	1	2.000		2.300	3.1400 00	14.444
	FLOOR	1	2.000	2.000		0.7850 00	3.140
	DEDUCTION PIPE	-1	0.400	0.400		0.7850 00	-0.126
	Total						17.458
	Total Quantity in sqm						17.458
3.012	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 & 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>						
	Providing and applying integral crystalline slurry of hydrophilic						
	FLOOR	1	2.000	2.000		0.7850 00	3.140
	DEDUCTION PIPE	-1	0.400	0.400		0.7850 00	-0.126
	Total						3.014

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in sqm							3.014
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					
	OUTER	1	2.400		2.300	3.1400 00	17.333
Total							17.333
Total Quantity in sqm							17.333
3.014	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					
		17.333					17.333
Total							17.333
Total Quantity in sqm							17.333
4	Part IV-Clarrifloccular						
4.001	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.					
	clearing grass						
	area	1	22.000	22.000		0.7850 00	379.940
Total							379.940
Total Quantity in sqm							379.940
4.002	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					
	Earth work in excavation						
	Below base slab	1	21.800	21.800	1.370	0.7850 00	511.097
Total							511.097
Total Quantity in cum							511.097
4.003	2.7.1	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.Ordinary rock					

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Earth work in excavation						
	Below base slab	1	21.800	21.800	0.130	0.7850 00	48.498
	Total						48.498
	Total Quantity in cum						48.498
4.004	OD270968/2022-2023						
	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 from 1.5 m to 3m., disposed earth to be levelled and neatly dressed. Ordinary rock						
	Earth work in excavation > 1.5m.						
	Below base slab	1	21.800	21.800	0.810	0.7850 00	302.181
	Total						302.181
	Total Quantity in cum						302.181
4.005	OD271073/2022-2023						
	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 from 1.5 m to 3m., disposed earth to be levelled and neatly dressed. Hard rock (blasting prohibited)						
	Earth work in excavation > 1.5m.						
	Foundation of centre column	1	2.700	2.700	0.280		2.041
	inlet pipe under clarifier	1	10.900	0.400	0.280		1.221
	inlet pipe balance	1	2.600	0.500	0.280		0.364
	Below base slab	1	21.800	21.800	0.550	0.7850 00	205.185
	Total						208.811
	Total Quantity in cum						208.811
4.006	OD271287/2022-2023						
	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 from 1.5 m to 3m., disposed earth to be levelled and neatly dressed. Hard rock (blasting prohibited)						
	Earth work in excavation > 3						
	Foundation of centre column	1	2.700	2.700	1.500		10.935
	inlet pipe under clarifier	1	10.900	0.400	0.120		0.523
	inlet pipe balance	1	2.600	0.500	0.120		0.156
	Total						11.614

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in cum							11.614
4.007	OD175992/2022-2023						
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.						
	Dowel bar						
	for center shaft and outer wall	280					280.000
	Total						280.000
Total Quantity in no							280.000
4.008	4.1.5						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
	CC						
	Base	1	(21.8*21.8)-(0.8*0.8)		0.150	0.7850 00	55.884
	FDN	1	2.700	2.700	0.100		0.729
	Total						56.613
Total Quantity in cum							56.613
4.009	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						
	Below plinth						
	FDN	1	2.400	2.400	0.600		3.456
	Base slab	1	21.800	21.800	0.300	0.7850 00	111.919
	Central Column	1	(0.8*0.8)-(0.4*0.4)		3.750	0.7850 00	1.413
	Clarifier	1	(20.6*20.6)-(2.0*2.0)		1.450	0.7850 00	27.728
	Flocculator wall base beam	1	(9.85*9.85)-(8.65*8.65)		0.600	0.7850 00	10.456

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Flocculator wall base column	8	0.400	0.400	1.300		1.664
	Total						156.636
						Total Quantity in cum	156.636
4.010	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						
	RCC						
	Flocculator wall top	1	(9.5*9.5)- (9*9)		3.920	0.7850 00	28.464
	Clarifier wall	1	(20.6*20.6)- (20*20)		4.100	0.7850 00	78.403
	Laundry base	1	(20*20)- (18.6*18.6)		0.200	0.7850 00	8.484
	Laundry side wall	1	(19*19)- (18.6*18.6)		0.850	0.7850 00	10.035
	walk way	1	(21.8*21.8)- (20.6*20.6)		0.200	0.7850 00	7.988
	Column	1	(.8*.8)- (.4*.4)		4.100	0.7850 00	1.545
	Total						134.919
						Total Quantity in cum	134.919
4.011	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).						
	Extra for M30 mix						
		1	156.636+ 134.919				291.555
	Total						291.555
						Total Quantity in cum	291.555

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
4.012	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						
	Steel						
	Steel	291.55 5				120.00 0000	34986.60 0
	Total						34986.60 0
	Total Quantity in kilogram						34986.60 0
4.013	4.3.1						
	Centering and shuttering including strutting, propping etc. and removal of form work for: Foundations, footings, bases for columns						
	Below plinth						
	FDN PCC	4	2.700		0.100		1.080
	Base Slab PCC	1	21.800		0.150	3.1400 00	10.268
	Base Slab	1	21.800		0.300	3.1400 00	20.536
	FDN RCC	4	2.400		0.600		5.760
	Clarifier wall outer	1	20.600		1.450	3.1400 00	93.792
	Clarifier wall inside	1	20.000		1.450	3.1400 00	91.060
	column outside	1	0.800		3.750	3.1400 00	9.420
	column inside	1	0.400		3.750	3.1400 00	4.710
	flocculator wall outside	0.5	9.850		1.940	3.1400 00	30.001
	flocculator wall inside	0.5	8.650		1.940	3.1400 00	26.346
	Total						292.973
	Total Quantity in sqm						292.973
4.014	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.						
	Centering and shuttering						
	flocculator wall outer	0.5	9.500		3.920	3.1400 00	58.467
	flocculator wall inside	0.5	9.000		3.920	3.1400 00	55.390

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	clarifier wall outside	1	20.600		4.100	3.1400 00	265.204
	clarifier wall inside	1	20.000		4.100	3.1400 00	257.480
	Total						636.541
						Total Quantity in sqm	636.541
4.015	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						
	laundry slab outside	1	(20*20)- (18.6*18.6)			0.7850 00	42.421
	laundry slab inside	1	(20*20)- (19*19)			0.7850 00	30.615
	laundry wall outside	1	18.600	0.850		3.1400 00	49.643
	laundry wall inside	1	19.000	0.650		3.1400 00	38.779
	walkway slab outside	1	(21.8*21.8)- (20*20)			0.7850 00	59.063
	walkway slab inside	1	(21.8*21.8)- (20.6*20.6)			0.7850 00	39.941
	walkway vertical side	1	21.800		0.200	3.1400 00	13.690
	Total						274.152
						Total Quantity in sqm	274.152
4.016	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						
	flocculator base outside	1	9.850		0.600	3.1400 00	18.557
	flocculator base inside	1	8.650		0.600	3.1400 00	16.297
	Total						34.854
						Total Quantity in sqm	34.854
4.017	5.9.6						
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Centering and shuttering						
	column outside	1	0.800		3.750	3.1400 00	9.420
	column inside	1	0.400		3.750	3.1400 00	4.710
	Total						14.130
	Total Quantity in sqm						14.130
4.018	13.7.1						
	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)						
	plastering						
	Base Slab outside	1	21.800		0.300	3.1400 00	20.536
	Base Slab inside	1	21.800	21.800		0.7850 00	373.063
	Clarifier wall outer	1	20.600		1.450	3.1400 00	93.792
	Clarifier wall inside	1	20.000		1.450	3.1400 00	91.060
	column outside	1	0.800		3.750	3.1400 00	9.420
	flocculator wall outside	0.5	9.850		1.290	3.1400 00	19.949
	flocculator wall inside	0.5	8.650		1.340	3.1400 00	18.198
	Clarifier wall outer	1	20.600		4.100	3.1400 00	265.204
	Clarifier wall inside	1	20.000		4.100	3.1400 00	257.480
	flocculator wall outside	1	9.500		3.920	3.1400 00	116.934
	flocculator wall inside	1	9.000		3.920	3.1400 00	110.779
	lauder slab outside	1	(20*20)- (18.6*18.6)			0.7850 00	42.421
	lauder slab inside	1	(20*20)- (19*19)			0.7850 00	30.615
	lauder wall outside	1	20.000	0.850		3.1400 00	53.380
	lauder wall inside	1	19.000	0.650		3.1400 00	38.779

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	walkway slab outside	1	(21.8*21.8)- (20*20)			0.7850 00	59.063
	walkway slab inside	1	(21.6*21.6)- (20*20)			0.7850 00	52.250
	walkway vertical side	1	21.800		0.200	3.1400 00	13.690
	flocculator base outside	1	9.850		0.600	3.1400 00	18.557
	flocculator base inside	1	8.650		0.600	3.1400 00	16.297
	column outside	1	0.800		4.100	3.1400 00	10.299
	Total						1711.766
						Total Quantity in sqm	1711.766
4.019	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	primer						
	Clarifier wall outer	1	20.660		4.100	3.1400 00	265.977
	walkway slab outside	1	(21.8*21.8)- (20*20)			0.7850 00	59.063
	walkway slab inside	1	(21.6*21.6)- (20*20)			0.7850 00	52.250
	walkway vertical side	1	21.800		0.200	3.1400 00	13.690
	Total						390.980
						Total Quantity in sqm	390.980
4.020	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 & 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>						
	slurry for vertical surface						
	column outside	1	0.800		3.750	3.1400 00	9.420
	column outside	1	0.800		4.100	3.1400 00	10.299
	flocculator base outside	1	9.850		0.600	3.1400 00	18.557
	flocculator base inside	1	8.650		0.600	3.1400 00	16.297
	launder wall outside	1	20.000	0.850		3.1400 00	53.380
	launder wall inside	1	19.000	0.650		3.1400 00	38.779
	flocculator wall outer	0.5	9.500		3.920	3.1400 00	58.467
	flocculator wall inside	0.5	9.000		3.920	3.1400 00	55.390
	clarifier wall inside	1	20.000		4.100	3.1400 00	257.480
	Total						518.069
	Total Quantity in sqm						518.069
4.021	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 & 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>						
	slurry for horizontal surface						
	Base Slab	1	21.800	21.800		0.7850 00	373.063
	lauder slab outside	1	(20*20)- (18.6*18.6)			0.7850 00	42.421
	lauder slab inside	1	(20*20)- (19*19)			0.7850 00	30.615
	Total						446.099
	Total Quantity in sqm						446.099
4.022	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						
	steel works						
	Platform	1				563.00 0000	563.000
	Ladder	2				103.00 0000	206.000
	Total						769.000
	Total Quantity in kg						769.000
4.023	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						
	Handrail						
	handrail	1				233.00 0000	233.000
	Total						233.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in kg							233.000
4.024	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.					
	Filling water	1	20.000	20.000	6.200	0.7850 00	1946.800
Total							1946.800
Total Quantity in Kilo litre							1946.800
5	Part V- Filter House, lobby, chemical house, chlorine room, solution room, private room and Back wash water tank						
5.001	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					
	Clearing	1	19.000	17.000			323.000
Total							323.000
Total Quantity in sqm							323.000
5.002	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					
	EW	12	2.100	1.900	1.300	0.5000 00	31.122
	FDN 60x30	15	1.800	1.800	1.300	0.5000 00	31.590
Total							62.712
Total Quantity in cum							62.712
5.003	2.7.1	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. Ordinary rock					
	Earth work excavation OR	12	2.100	1.900	1.300	0.3000 00	18.673
	FDN 60x30						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	FDN 30x30	15	1.800	1.800	1.300	0.3000 00	18.954	
	Total							37.627
	Total Quantity in cum							37.627
5.004	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)							
	Hard rock							
	FDN 60x30	12	2.100	1.900	1.300	0.2000 00	12.449	
	FDN 30x30	15	1.800	1.800	1.300	0.2000 00	12.636	
	Total							25.085
	Total Quantity in cum							25.085
5.005	OD175994/2022-2023							
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.							
	clm 60*30	96					96.000	
	clm 30*30	90					90.000	
	Total							186.000
	Total Quantity in no							186.000
5.006	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)							
	PCC							
	FDN 60x30	12	2.000	1.800	0.100		4.320	
	FDN 30x30	15	1.700	1.700	0.100		4.335	
	Total							8.655
	Total Quantity in cum							8.655
5.007	2.25							
	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.							
	Earth Filling							
	FDN 60x30	12	2.100	1.900	1.300		62.244	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	FDN 30x30	15	1.800	1.800	1.300		63.180
	FDN pcc	-12	2.000	1.800	0.100		-4.320
	FDN pcc	-15	1.700	1.700	0.100		-4.335
	FDN 60x30 step 1	-12	1.800	1.600	0.400		-13.824
	FDN 60x30 step 2	-12	1.400	1.200	0.300		-6.048
	FDN 60x30 step 3	-12	1.000	1.000	0.300		-3.600
	FDN 30x30 step 1	-15	1.500	1.500	0.400		-13.500
	FDN 30x30 step 2	-15	1.100	1.100	0.300		-5.445
	FDN 30x30 step 3	-15	0.700	0.700	0.300		-2.205
	Column 30x30	-15	0.300	0.300	0.500		-0.675
	Column 60x30	-12	0.600	0.300	0.500		-1.080
	Plinth beam (porch)	1	3.500	6.140	0.200		4.298
	Plinth Beam	1	3.600	3.400	0.450		5.508
	Plinth Beam	2	3.800	3.600	0.450		12.312
	Plinth Beam	1	3.600	3.200	0.450		5.184
	Plinth Beam	1	3.500	3.900	0.450		6.143
	Plinth Beam	1	3.500	3.400	0.450		5.355
	Plinth Beam	1	3.900	2.000	0.450		3.510
	Plinth Beam	1	3.400	2.000	0.450		3.060
	Plinth Beam	3	3.400	3.900	0.450		17.901
	Plinth Beam	1	3.400	3.400	0.450		5.202
	Plinth Beam	2	3.800	3.900	0.450		13.338
	Plinth Beam	2	2.100	3.900	0.450		7.371
	Total						159.574
						Total Quantity in cum	159.574
5.008	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	
	RCC							
	FDN 60x30 step 1	12	1.800	1.600	0.400		13.824	
	FDN 60x30 step 2	12	1.400	1.200	0.300		6.048	
	FDN 60x30 step 3	12	1.000	0.800	0.300		2.880	
	FDN 30x30 step 1	15	1.500	1.500	0.400		13.500	
	FDN 30x30 step 2	15	1.100	1.100	0.300		5.445	
	FDN 30x30 step 3	15	0.700	0.700	0.300		2.205	
	Column 30x30	15	0.300	0.300	0.500		0.675	
	Column 60x30	12	0.600	0.300	0.500		1.080	
	PlinthBeam	9	3.400	0.300	0.450		4.131	
	PlinthBeam	3	3.500	0.300	0.450		1.418	
	PlinthBeam	6	3.800	0.300	0.450		3.078	
	PlinthBeam	12	3.900	0.300	0.450		6.318	
	PlinthBeam	4	3.600	0.300	0.450		1.944	
	PlinthBeam	2	2.000	0.300	0.450		0.540	
	PlinthBeam	2	2.100	0.300	0.450		0.567	
	PlinthBeam	1	2.300	0.300	0.450		0.311	
	PlinthBeam	1	3.200	0.300	0.450		0.432	
	Total						64.396	
	Total Quantity in cum							64.396
5.009	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							
	RCC above Plinth							
	Column (60*30) GF	6	0.600	0.300	3.500		3.780	
	Column (60*30) GF	6	0.600	0.300	4.000		4.320	
	Column (30*30) GF	13	0.300	0.300	3.500		4.095	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Column (30*30) GF	2	0.300	0.300	4.000		0.720
	Beam (30*45) GF	2	2.000	0.300	0.450		0.540
	Beam (30*45) GF	2	2.100	0.300	0.450		0.567
	Beam (30*45) GF	1	2.300	0.300	0.450		0.311
	Beam (30*45) GF	3	3.200	0.300	0.450		1.296
	Beam (30*45) GF	9	3.400	0.300	0.450		4.131
	Beam (30*45) GF	3	3.500	0.300	0.450		1.418
	Beam (30*45) GF	4	3.600	0.300	0.450		1.944
	Beam (30*45) GF	6	3.800	0.300	0.450		3.078
	Beam (30*45) GF.	12	3.900	0.300	0.450		6.318
	PORCH Beam (30*45) GF.	1	5.500	0.300	0.450		0.743
	Roof GF	1	17.400	15.100	0.150		39.411
	Roof GF	1	6.900	3.500	0.150		3.623
	DEDUCTION LOBBY	-1	4.000	3.500	0.150		-2.100
	DEDUCTION FILTER BED	-3	7.100	3.200	0.150		-10.224
	Lintel GF	2	2.000	0.200	0.150		0.120
	Lintel GF	1	2.300	0.200	0.150		0.069
	Lintel GF	5	3.400	0.200	0.150		0.510
	Lintel GF	1	3.500	0.200	0.150		0.105
	Lintel GF	2	3.800	0.200	0.150		0.228
	Lintel GF	6	3.900	0.200	0.150		0.702
	Sunshade GF	1	56.800	0.600	0.100		3.408
	Filter bed wall	3	3.900	0.250	3.700		10.823
	Filter bed wall	4	3.600	0.250	3.200		11.520
	Filter bed wall	1	3.400	0.250	3.200		2.720
	Filter bed wall.	2	3.500	0.250	3.200		5.600
	Filter bed wall.	3	3.600	0.250	3.200		8.640
	Filter bed wall.	1	3.800	0.250	3.200		3.040
	Filter bed wall.	3	3.900	0.250	3.200		9.360

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Filter bed BASE SLAB	1	12.300	7.700	0.150		14.207
	gullet wall	1	12.300	0.250	2.500		7.688
	Column (60*30) FF	12	0.600	0.300	3.500		7.560
	Column (30*30) FF	13	0.300	0.300	3.500		4.095
	Beam (30*45) FF	9	3.400	0.300	0.300		2.754
	Beam (30*45) FF	3	3.500	0.300	0.300		0.945
	Beam (30*45) FF	6	3.800	0.300	0.300		2.052
	Beam (30*45) FF	12	3.900	0.300	0.300		4.212
	Beam (30*45) FF	4	3.600	0.300	0.300		1.296
	Beam (30*45) FF	2	2.000	0.300	0.300		0.360
	Beam (30*45) FF	2	2.100	0.300	0.300		0.378
	Beam (30*45) FF.	1	2.300	0.300	0.300		0.207
	Beam (30*45) FF.	1	3.200	0.300	0.300		0.288
	LINTEL FF	4	3.600	0.200	0.150		0.432
	LINTEL FF	6	3.400	0.200	0.150		0.612
	LINTEL FF	2	3.800	0.200	0.150		0.228
	LINTEL FF	6	3.900	0.200	0.150		0.702
	LINTEL FF	2	3.500	0.200	0.150		0.210
	LINTEL FF	2	2.000	0.200	0.150		0.120
	LINTEL FF	1	2.300	0.200	0.150		0.069
	SUNSHADE FF	1	62.900	0.600	0.100		3.774
	ROOF SLAB FF	1	17.400	15.100	0.150		39.411
	SOLN ROOM SLAB	-1	5.000	1.700	0.100		-0.850
	LAB SLAB	-1	15.000	1.000	0.100		-1.500
	Column (60*30) SF	12	0.600	0.300	2.900		6.264
	Column (30*30) SF	4	0.300	0.300	2.900		1.044
	Beam (30*40) SF	1	3.400	0.300	0.280		0.286
	Beam (30*40) SF	2	3.500	0.300	0.280		0.588
	Beam (30*40) SF	4	3.800	0.300	0.280		1.277
	Beam (30*40) SF	9	3.900	0.300	0.280		2.948
	Beam (30*40) SF	4	3.600	0.300	0.280		1.210
	Beam (30*40) SF	2	2.000	0.300	0.280		0.336

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Beam (30*40) SF	2	2.100	0.300	0.280		0.353
	Roof slab SF	1	13.100	11.400	0.120		17.921
	Back wash side wall	4	3.600	0.250	2.620		9.432
	Back wash side wall	1	3.400	0.250	2.620		2.227
	Back wash side wall	2	3.500	0.250	2.620		4.585
	Back wash side wall	2	2.000	0.250	2.620		2.620
	Back wash side wall	3	3.900	0.250	2.620		7.664
	staircase slab	2	3.300	1.000	0.120		0.792
	staircase step	22	1.000	0.300	0.165		1.089
	alum and lime tank	1	5.000	1.300	0.100		0.650
	alum and lime tank	3	1.000	1.300	0.100		0.390
	Stilling chamber	6	1.200	0.100	1.200		0.864
	Stilling chamber	6	1.400	0.100	1.200		1.008
	cw channel	2	14.000	0.100	1.000		2.800
	cw channel	2	14.000	1.000	0.100		2.800
	byepass channel	2	18.000	1.000	0.100		3.600
	byepass channel	2	18.000	0.100	1.000		3.600
	wash water trough	12	7.000	0.600	0.100		5.040
	wash water trough	6	7.000	0.800	0.100		3.360
	manifold	6	7.000	0.800	0.100		3.360
	manifold	3	7.000	0.100	0.800		1.680
	Total						299.854
						Total Quantity in cum	299.854
5.010	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).						
	Rich mixture for M30						
		364.25					364.250
	Total						364.250
						Total Quantity in cum	364.250

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
5.011	5.9.1						
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	Centring and shuttering						
	FDN 60x30 step 1	12	6.800		0.400		32.640
	FDN 60x30 step 2	12	5.200		0.300		18.720
	FDN 60x30 step 3	12	3.600		0.300		12.960
	FDN 30x30 step 1	15	6.000		0.400		36.000
	FDN 30x30 step 2	15	4.400		0.300		19.800
	FDN 30x30 step 3	15	2.800		0.300		12.600
	Column 30x30	15	1.200		0.500		9.000
	Column 60x30	12	1.800		0.500		10.800
	Total						152.520
						Total Quantity in sqm	152.520
5.012	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.						
	Centring and shuttering						
	Filter bed wall	6	3.900		3.700		86.580
	Filter bed wall	8	3.600		3.200		92.160
	Filter bed wall	2	3.400		3.200		21.760
	Filter bed wall.	4	3.500		3.200		44.800
	Filter bed wall.	4	3.800		3.200		48.640
	Filter bed wall.	6	3.900		3.200		74.880
	Filter bed wall.	4	3.800		3.200		48.640
	gullet wall	2	12.300		3.500		86.100
	Back wash side wall	8	3.600		2.620		75.456
	Back wash side wall	2	3.400		2.620		17.816
	Back wash side wall	4	3.500		2.620		36.680
	Back wash side wall	4	2.000		2.620		20.960
	Back wash side wall	6	3.900		2.620		61.308

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	alum and lime tank	2	5.000	1.300			13.000
	alum and lime tank	6	1.000	1.300			7.800
	Stilling chamber	12	1.200		1.200		17.280
	Stilling chamber	12	1.400		1.200		20.160
	cw channel	4	14.000		1.000		56.000
	cw channel	4	14.000	1.000			56.000
	bypass channel	4	18.000	1.000			72.000
	bypass channel	4	18.000		1.000		72.000
	wash water trough	24	7.000	0.600			100.800
	wash water trough	12	7.000	0.800			67.200
	manifold	12	7.000	0.800			67.200
	manifold	6	7.000		0.800		33.600
	Total						1298.820
						Total Quantity in sqm	1298.820
5.013	5.9.3						
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform						
	Centring and shuttering						
	Roof GF	1	17.400	15.100			262.740
	Roof GF	1	6.900	3.500			24.150
	DEDUCTION LOBBY	-1	4.000	3.500			-14.000
	DEDUCTION FILTER BED	-3	7.100	3.200			-68.160
	ROOF SLAB FF	1	17.400	15.100			262.740
	Roof slab SF	1	13.100	11.400			149.340
	Total						616.810
						Total Quantity in sqm	616.810
5.014	5.9.5						
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers						
	Centring and shuttering						
	PlinthBeam	18	3.400		0.450		27.540
	PlinthBeam	6	3.500		0.450		9.450
	PlinthBeam	12	3.800		0.450		20.520
	PlinthBeam	24	3.900		0.450		42.120

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	PlinthBeam	8	3.600		0.450		12.960
	PlinthBeam	4	2.000		0.450		3.600
	PlinthBeam	4	2.100		0.450		3.780
	PlinthBeam	2	2.300		0.450		2.070
	PlinthBeam	2	3.200		0.450		2.880
	Beam (30*45) GF	18	3.400		0.300		18.360
	Beam (30*45) GF	6	3.500		0.300		6.300
	Beam (30*45) GF	12	3.800		0.300		13.680
	Beam (30*45) GF	24	3.900		0.300		28.080
	Beam (30*45) GF	8	3.600		0.300		8.640
	Beam (30*45) GF	4	2.000		0.300		2.400
	Beam (30*45) GF	4	2.100		0.300		2.520
	Beam (30*45) GF	2	2.300		0.300		1.380
	Beam (30*45) GF.	2	3.200		0.300		1.920
	PORCH Beam (30*45) GF.	4	3.200		0.300		3.840
	PORCH Beam (30*45) GF.	2	5.500		0.300		3.300
	Lintel GF	4	3.800		0.150		2.280
	Lintel GF	2	2.300		0.150		0.690
	Lintel GF	4	2.000		0.150		1.200
	Lintel GF	12	3.900		0.150		7.020
	Lintel GF	10	3.400		0.150		5.100
	Lintel GF	2	3.500		0.150		1.050
	Beam (30*45) FF	18	3.400		0.300		18.360
	Beam (30*45) FF	6	3.500		0.300		6.300
	Beam (30*45) FF	12	3.800		0.300		13.680
	Beam (30*45) FF	24	3.900		0.300		28.080
	Beam (30*45) FF	8	3.600		0.300		8.640
	Beam (30*45) FF	4	2.000		0.300		2.400
	Beam (30*45) FF	4	2.100		0.300		2.520

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Beam (30*45) FF.	2	2.300		0.300		1.380
	Beam (30*45) FF.	2	3.200		0.300		1.920
	LINTEL FF	8	3.600		0.150		4.320
	LINTEL FF	12	3.400		0.150		6.120
	LINTEL FF	4	3.800		0.150		2.280
	LINTEL FF	12	3.900		0.150		7.020
	LINTEL FF	4	3.500		0.150		2.100
	LINTEL FF	4	2.000		0.150		1.200
	LINTEL FF	2	2.300		0.150		0.690
	Beam (30*40) SF	2	3.400		0.280		1.904
	Beam (30*40) SF	4	3.500		0.280		3.920
	Beam (30*40) SF	8	3.800		0.280		8.512
	Beam (30*40) SF	18	3.900		0.280		19.656
	Beam (30*40) SF	8	3.600		0.280		8.064
	Beam (30*40) SF	4	2.000		0.280		2.240
	Beam (30*40) SF	4	2.100		0.280		2.352
	Total						386.338
					Total Quantity in sqm		386.338
5.015	5.9.6						
	Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts						
	Centering & Shuttering for Columns						
	Column (60*30) GF	6	1.800		3.500		37.800
	Column (60*30) GF	6	1.800		4.000		43.200
	Column (30*30) GF	13	1.200		3.500		54.600
	Column (30*30) GF	2	1.200		4.000		9.600
	Column (60*30) FF	12	1.800		3.500		75.600
	Column (30*30) FF	13	1.200		3.500		54.600
	Column (60*30) SF	12	1.800		2.900		62.640
	Column (30*30) SF	4	1.200		2.900		13.920
	Total						351.960

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in sqm							351.960
5.016	5.9.7	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings) except spiral - staircases)					
	Centring and shuttering						
	staircase slab	2	3.300	1.000			6.600
	staircase step	22	1.000		0.165		3.630
	staircase step SIDE	22	0.300		0.165	0.5000 00	0.545
	Total						10.775
Total Quantity in sqm							10.775
5.017	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					
	Centring and shuttering						
	Roof GF	2	17.4+15. 100				65.000
	Roof GF	2	6.900+3. 5				20.800
	LOBBY	2	4.000+3. 5				15.000
	FILTER BED	6	7.100+3. 2				61.800
	ROOF SLAB FF	2	17.4+15. 1				65.000
	Roof slab SF	2	13.100+1 1.4				49.000
	Total						276.600
Total Quantity in metre							276.600
5.018	5.9.19	Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges					
	Centring and shuttering						
	Sunshade GF	1	56.800	0.600			34.080
	SUNSHADE FF	1	62.900	0.600			37.740
	Total						71.820
Total Quantity in sqm							71.820
5.019	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					

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Steel for RCC							
		364.25				120.00 0000	43710.00 0	
	Total							43710.00 0
	Total Quantity in kilogram							43710.00 0
5.020	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)							
	PCC							
	PIPE GALLERY	1	12.440	2.500	0.100		3.110	
	BLOWER	1	4.500	3.500	0.100		1.575	
	CHEMICAL ROOM	1	10.500	3.500	0.100		3.675	
	CHLORINE ROOM	1	3.700	3.500	0.100		1.295	
	LOBBY	1	7.720	3.500	0.100		2.702	
	Total							12.357
	Total Quantity in cum							12.357
5.021	11.3.1							
	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							
	concrete work 1:2:4							
	PIPE GALLERY	1	12.440	2.500			31.100	
	BLOWER	1	4.500	3.500			15.750	
	CHEMICAL ROOM	1	10.500	3.500			36.750	
	CHLORINE ROOM	1	3.700	3.500			12.950	
	Total							96.550
	Total Quantity in sqm							96.550
5.022	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.							
	Solid block masonry							

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	STEPS ENTRANCE AND ALUM	2	1.800	0.200	0.200		0.144
	STEPS ENTRANCE AND ALUM	2	2.400	0.200	0.200		0.192
	STEPS ENTRANCE AND ALUM	2	3.000	0.200	0.200		0.240
	MD	-1	1.200	0.200	2.100		-0.504
	D1	-6	0.900	0.200	2.100		-2.268
	W3	-15	1.500	0.200	1.500		-6.750
	V	-10	1.000	0.200	1.000		-2.000
	V1	-1	0.600	0.200	0.400		-0.048
	GF	2	3.800	0.200	3.050		4.636
	GF	1	2.300	0.200	3.050		1.403
	GF	2	2.000	0.200	3.050		2.440
	GF.	3	3.900	0.200	3.550		8.307
	GF.	3	3.900	0.200	3.050		7.137
	GF	5	3.400	0.200	3.050		10.370
	GF	1	3.500	0.200	3.050		2.135
	GF	1	2.300	0.200	3.050		1.403
	FF	4	3.600	0.200	3.050		8.784
	FF	6	3.400	0.200	3.050		12.444
	FF	2	3.800	0.200	3.050		4.636
	FF	6	3.900	0.200	3.050		14.274
	FF	2	3.500	0.200	3.050		4.270
	FF	2	2.000	0.200	3.050		2.440
	FF	1	2.300	0.200	3.050		1.403
	Total						75.088
						Total Quantity in cum	75.088
5.023	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						
	TOILET WALL	1	3.200		3.500		11.200
	Total						11.200
						Total Quantity in cum	11.200

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
5.024	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	GF OUTER WALLS	2	15.000		3.500		105.000
	GF OUTER WALLS	2	16.800		3.500		117.600
	GF INSIDE WALLS	3	12.500		3.500		131.250
	GF INSIDE WALLS	1	4.700		3.500		16.450
	GF INSIDE WALLS	8	3.700		3.500		103.600
	GF INSIDE WALLS	2	3.900		3.500		27.300
	GF INSIDE WALLS	2	10.700		3.500		74.900
	GF INSIDE WALLS	2	2.200		3.500		15.400
	GF INSIDE BEAMS	3	3.900		0.900		10.530
	GF INSIDE BEAMS	3	3.400		0.900		9.180
	GF INSIDE BEAMS	2	2.100		0.900		3.780
	PORCH CLMNS.	2	1.200		3.500		8.400
	PORCH BEAMS	2	3.200		0.900		5.760
	PORCH BEAMS	1	5.500		0.900		4.950
	ROOF GF	1	17.400	15.100			262.740
	ROOF GF	2	6.900	3.500			48.300
	FF INSIDE WALLS	4	16.600		3.500		232.400
	FF INSIDE WALLS	6	14.300		3.500		300.300
	FF INSIDE WALLS	6	3.700		3.500		77.700
	FF INSIDE WALLS.	1	6.400		3.500		22.400
	FF INSIDE WALLS.	2	4.100		3.500		28.700
	FF INSIDE BEAMS	6	3.900		0.900		21.060

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	FF INSIDE BEAMS	2	2.100		0.900		3.780
	FF INSIDE BEAMS	3	3.400		0.900		9.180
	FF INSIDE BEAMS	4	3.800		0.900		13.680
	SF WALLS	4	11.200		2.900		129.920
	SF WALLS	4	12.900		2.900		149.640
	SF ROOF	1	13.100	11.400			149.340
	SF CLMNS	4	1.200		2.900		13.920
	SF BEAMS	6	3.900		0.900		21.060
	SF BEAMS	4	3.800		0.900		13.680
	SF BEAMS	2	2.100		0.900		3.780
	STEPS ENTRANCE AND ALUM	2	1.800		0.200		0.720
	STEPS ENTRANCE AND ALUM	2	2.400		0.200		0.960
	STEPS ENTRANCE AND ALUM	2	3.000		0.200		1.200
	ALUM TANK OUTSIDE	1	5.000		1.300		6.500
	MD	-1	1.200		2.100		-2.520
	D1	-6	0.900		2.100		-11.340
	W3	-15	1.500		1.500		-33.750
	V	-10	1.000		1.000		-10.000
	V1	-1	0.600		0.400		-0.240
	DEDUCTION LOBBY	-1	4.000	3.500			-14.000
	DEDUCTION FILTER BED	-3	7.100	3.200			-68.160
	ROOF SLAB FF	1	17.400	15.100			262.740
	Sunshade GF	2	48.230	0.700			67.522
	SUNSHADE FF	2	62.900	0.700			88.060
	staircase slab	2	3.300	1.000			6.600
	Total						2429.972
						Total Quantity in sqm	2429.972
5.025	13.16.1						
	6 mm cement plaster of mix:1:3 (1 cement : 3 fine sand)						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	plastering 6 mm						
	ROOFTOP	1	13.100	11.400			149.340
	ROOFTOP	1	11.200	3.500			39.200
	ROOFTOP	1	10.500	3.700			38.850
	ROOFTOP	1	7.200	6.100			43.920
	Total						271.310
						Total Quantity in sqm	271.310
5.026	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 & 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>						
	Vertical						
	BACK WASH WALL	1	46.200		2.900		133.980
	Total						133.980
						Total Quantity in sqm	133.980
5.027	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 & 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>						
	Floor						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	BACK WASH FLOOR	1	12.400	10.700			132.680
	Total						132.680
						Total Quantity in sqm	132.680
5.028	21.1.1.3						
	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)						
	Aluminium work						
	MD	1	6.600			0.5800 00	3.828
	D1	6	6.000			0.5800 00	20.880
	W3	15	6.000			0.5800 00	52.200
	V	10	4.000			0.5800 00	23.200
	V1	1	2.000			0.5800 00	1.160
	STILLING CHAMBER	3	4.800			0.5800 00	8.352
	Total						109.620
						Total Quantity in kg	109.620
5.029	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						
	Glazing work						
	MD	1	1.150		1.450		1.668
	D1	6	0.850		1.450		7.395
	W3	30	0.700		1.450		30.450
	STILLING CHAMBER	3	1.150		1.150		3.968

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						43.481
						Total Quantity in sqm	43.481
5.030	OD175753/2022-2023						
	<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 & 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 & 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 Aluminium Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.</p>						
	panel						
	MD	1	1.150		1.200		1.380
	D1	6	0.850		1.200		6.120
	Total						7.500
						Total Quantity in sqm	7.500
5.031	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>						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Aluminium Grill						
	W3	15	1.500		1.500		33.750
	V	10	1.000		1.000		10.000
	V1	1	0.600		0.400		0.240
	Total						43.990
	Total Quantity in kg						43.990
5.032	10.15.2						
	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular /L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)						
		1			100.000		100.000
	Total						100.000
	Total Quantity in kg						100.000
5.033	9.120.1						
	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 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 & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture's specification & drawing. 30 mm thick plain PVC door shutters						
		1	0.850		2.100		1.785
	Total						1.785
	Total Quantity in sqm						1.785
5.034	10.6.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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						
		2	3.000		3.500		21.000
	Total						21.000
	Total Quantity in sqm						21.000
5.035	11.41.3 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 800x 800 mm						
	Floor tile						
	Lobby	1	7.7+.2	3.4+.2			28.440
	Stair case Step	22	1.2+.2	0.450			13.860
	Stair case landings	2	1.2+.1	1.2+.1			3.380
	private Room	1	4.4+.2	4.9+.2			23.460
	Total						69.140
	Total Quantity in sqm						69.140
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						
	Lab	1	9.8+.2	4.9+.2			51.000
	Lab slab	1	14.6+1.2	.1+1+.6			26.860
	Solution room	1	6.2+.2	3.5+.2			23.680
	Solution room step	3	1+.2	0.450			1.620
	Filter bed floor	3	7.000	3.900			81.900
	Gullett	1	12.400	0.800			9.920
	WW trough	3	7.300	1.800			39.420
	Manifold	3	7.300	.4+.8+.4			35.040

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Stilling chamber floor	3	1.200	1.200			4.320
	Operating platform	1	12.600	0.800			10.080
	Operating platform	4	7.100	0.800			22.720
	Operating platform	1	12.300	2.000			24.600
	Operating platform	1	1.000	0.900			0.900
	TOILET	1	2.000	1.400			2.800
	Total						334.860
						Total Quantity in sqm	334.860
5.037	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						
	Filter bed	3	23.000		3.200		220.800
	Gullet	1	26.400		3.500		92.400
	Toilet wall	1	6.600		2.800		18.480
	Toilet door	-1	0.900		2.000		-1.800
	Stilling chamber wall	3					3.000
	Total						332.880
						Total Quantity in sqm	332.880
5.038	11.19.3						
	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand):Dark shade pigment using ordinary cement						
	Porch tile						
	Porch	1	6.100	3.500			21.350
	Total						21.350
						Total Quantity in sqm	21.350
5.039	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
		1	2163.312				2163.312
	Total						2163.312
						Total Quantity in sqm	2163.312
5.040	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						
	.						
		2163.312					2163.312
	Total						2163.312
						Total Quantity in sqm	2163.312
5.041	100.41.33						
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.						
	.						
		5					5.000
	Total						5.000
						Total Quantity in no	5.000
5.042	13.71						
	Lettering with black Japan pint of approved brand and manufacture						
	.						
		378					378.000
	Total						378.000
						Total Quantity in per Letter per cm height	378.000
5.043	13.61.1						
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	.						
		2	3.500		3.500		24.500
	Total						24.500
						Total Quantity in sqm	24.500
5.044	OD175662/2022-2023						
	Supply and spreading of filter media sand conforming to the latest CPHEEO manual.						
	.						
		3	7.000	4.000	0.300		25.200
	Total						25.200
						Total Quantity in cum	25.200
5.045	OD175670/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Supply of Anthracite as per design in quantity required as per design, properly graded and tested by supplier specific the source of material and quality commensurate to the following specifications: SP gravity - 1.45 - 1.55, Uniformity Coefficient - 1.5, Bulk density - 0.73 - 0.75T/cum, Hardness - 3MOH, Handgrove -44-50, Carbon content >90%, Ash - 3-4%, Volatile - 5-7%, Solubility - 1.5% in 10% HCl/ 10% NaOH for 24 Hrs certification including all cost, taxes, conveyance to site, loading and unloading etc. complete							
		3	7.000	4.000	0.750		63.000	
	Total						63.000	
	Total Quantity in cum							63.000
5.046	OD175730/2022-2023							
	Supply and spreading of pebbles 2mm to 6 mm /6 mm to 12 mm for rapid sand filter as per latest CPHEEO manual.							
		3	7.000	4.000	0.300		25.200	
	Total						25.200	
	Total Quantity in cum							25.200
5.047	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.							
	BACKWASH	1	12.400	10.700	2.900		384.772	
	Total						384.772	
	Total Quantity in Kilo litre							384.772
5.048	OD175833/2022-2023							
	Supplying and fixing electromagnetic flow meter conforming to protection level IP -68 for flow sensor and IP - 67 for transmitter and having an accuracy level of 0.5% with LED/LCD display unit suitable to measure the discharge of CW. The flow meter should have the housing (flow sensor) to be made of SS 304/ Carbon steel with anti-corrosive protection and inside liner to be made up of Hard Rubber/Neoprene all conforming to drinking water standards. The flow meter should be coupled with HART for data acquisition and transfer with provision for wireless transfer through GSM. The manufacturers should have the calibration standards as per ISO 17025 and the product shall have sufficient warranty position. Flow meter should be tested and calibrated at FCRI, Palakkad and test certificate should be produced. Flow meter should be calibrated with physical measurement at site after installation. A battery back of min 24 hrs should be provided. For 600m Flow meter.							
	electromagnetic flow meter							
		1					1.000	
	Total						1.000	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total Quantity in no						1.000
5.049	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						
	STAIRS TO BACKWASH AND SUMP	2	255.000				510.000
	Total						510.000
	Total Quantity in kg						510.000
5.050	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						
	HANDRAIL						
		298					298.000
	Total						298.000
	Total Quantity in kg						298.000
5.051	OD175838/2022-2023						
	Providing and fixing handrail of approved size by welding/reviting etc. to steel ladder railing, balcony railing, staircases railing and similar works, including fittings and fixing charges. ALUMINIUM TUBE						
	hand rail						
		1				528.000000	528.000
	Total						528.000
	Total Quantity in kg						528.000
5.052	OD175850/2022-2023						
	Supplying and providing 100mm dia vent cowl including fitting charges etc.						
	vent cowl						
		8					8.000
	Total						8.000
	Total Quantity in no						8.000
5.053	OD175916/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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						
	water level indicator						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
6	Part VI- Clear Water Sump,Pump House and Panel Room						
6.001	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)						
		20	1.200	1.200	1.200		34.560
	Total						34.560
	Total Quantity in cum						34.560
6.002	OD175928/2022-2023						
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.						
	Dowel bar						
		80					80.000
	Total						80.000
	Total Quantity in no						80.000
6.003	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)						
	PCC for Column						
	PCC	20	1.200	1.200	0.100		2.880
	Total						2.880
	Total Quantity in cum						2.880
6.004	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							
	RCC							
	STEP 1	20	1.000	1.000	0.400		8.000	
	STEP 2	20	0.800	0.800	0.300		3.840	
	STEP 3	20	0.300	0.300	0.400		0.720	
	Total						12.560	
	Total Quantity in cum							12.560
6.005	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							
	1							
	Base slab of sump	1	13.900	10.100	0.450		63.176	
	Side wall	2	13.900	0.200	3.000		16.680	
	Side wall	2	10.100	0.200	3.000		12.120	
	Deduct	-14	0.300	0.200	3.000		-2.520	
	Column of sump	20	0.300	0.300	3.000		5.400	
	Beam of sump	4	3.300	0.300	0.300		1.188	
	Beam of sump.	4	3.700	0.300	0.300		1.332	
	Beam of sump.	8	2.700	0.300	0.300		1.944	
	Beam of sump	5	2.900	0.300	0.300		1.305	
	Beam of sump	10	3.000	0.300	0.300		2.700	
	Roof slab of sump	1	14.200	10.200	0.200		28.968	
	Column of pump house and panel room	20	0.300	0.300	3.000		5.400	

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Beams of pump house and panel room	4	3.300	0.300	0.300		1.188
	Beams of pump house and panel room	4	3.700	0.300	0.300		1.332
	Beams of pump house and panel room	8	2.700	0.300	0.300		1.944
	Beams of pump house and panel room	5	2.900	0.300	0.300		1.305
	Beams of pump house and panel room	10	3.000	0.300	0.300		2.700
	Lintel of pump house and panel room	4	3.300	0.200	0.150		0.396
	Lintel of pump house and panel room	4	3.700	0.200	0.150		0.444
	Lintel of pump house and panel room	8	2.700	0.200	0.150		0.648
	Lintel of pump house and panel room	5	2.900	0.200	0.150		0.435
	Lintel of pump house and panel room	10	3.000	0.200	0.150		0.900
	Sunshade of pump house and panel room	2	15.100	0.600	0.150		2.718
	Sunshade of pump house and panel room	2	10.100	0.600	0.150		1.818
	Roofslab of pump house and panel room	1	14.200	10.200	0.150		21.726
	Haunch	1	46.400	0.300	0.450	0.5000 00	3.132
	Total						178.379
						Total Quantity in cum	178.379
6.006	5.34.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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).						
		190.93 9					190.939
	Total						190.939
	Total Quantity in cum						190.939
6.007	5.9.1						
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	.						
	STEP 1	20	4.000		0.400		32.000
	STEP 2	20	3.200		0.300		19.200
	STEP 3	20	1.200		0.400		9.600
	Total						60.800
	Total Quantity in sqm						60.800
6.008	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.						
	Centering and shuttering						
	sump side wall	4	3.300		2.700		35.640
	sump side wall	4	3.700		2.700		39.960
	sump side wall	8	2.700		2.700		58.320
	sump side wall	4	2.900		2.700		31.320
	sump side wall	8	3.000		2.700		64.800
	sump base slab	1	48.000		0.450		21.600
	beam	2	42.600		0.450		38.340
	Total						289.980
	Total Quantity in sqm						289.980
6.009	5.9.3						
	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform						
	.						
	sump roof slab	1	14.200	10.200			144.840
	PUMP roof slab	1	14.200	10.200			144.840
	Total						289.680
	Total Quantity in sqm						289.680

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
6.010	5.9.5							
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	.							
	sump beams	8	3.300		0.300		7.920	
	sump beams	8	3.700		0.300		8.880	
	sump beams	16	2.700		0.300		12.960	
	sump beams	10	2.900		0.300		8.700	
	sump beams	20	3.000		0.300		18.000	
	PH & panel room beams	8	3.300		0.300		7.920	
	PH & panel room beams	8	3.700		0.300		8.880	
	PH & panel room beams	16	2.700		0.300		12.960	
	PH & panel room beams	10	2.900		0.300		8.700	
	PH & panel room beams	20	3.000		0.300		18.000	
	Total							112.920
	Total Quantity in sqm							112.920
6.011	5.9.6							
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	.							
	sump columns	20	1.200		3.000		72.000	
	Pump columns	20	1.200		3.000		72.000	
	Total							144.000
	Total Quantity in sqm							144.000
6.012	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							
	.							
		98					98.000	
	Total							98.000
	Total Quantity in metre							98.000
6.013	5.9.19							
	Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges							
	.							

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	PH & panel room sunshade	1	48.000	0.600			28.800
	Total						28.800
	Total Quantity in sqm						28.800
6.014	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						
		1	190.939			120.00 0000	22912.68 0
	Total						22912.68 0
	Total Quantity in kilogram						22912.68 0
6.015	11.3.1						
	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						
	pump house	1	7.500	9.500			71.250
	panel room	1	6.000	9.500			57.000
	Total						128.250
	Total Quantity in sqm						128.250
6.016	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						
	PH & panel room	2	3.300	0.200	3.000		3.960
	PH & panel room	2	3.700	0.200	3.000		4.440
	PH & panel room	4	2.700	0.200	3.000		6.480
	PH & panel room	2	2.900	0.200	3.000		3.480
	PH & panel room	4	3.000	0.200	3.000		7.200
	Deduction for shutter	-1	3.000	0.200	2.700		-1.620
	Deduction for shutter	-1	2.500	0.200	2.700		-1.350
	Deduction for windows	-12	1.500	0.200	1.500		-5.400

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Deduction for door	-1	1.000	0.100	2.100		-0.210	
	Total						16.980	
	Total Quantity in cum							16.980
6.017	50.6.3.1							
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth for 10 cm thick wall in CM 1:6 (1 cement : 6 coarse sand) including cost of scaffolding etc complete							
	Brick Work for 10cm thick wall							
	PH & panel room partition	1	8.800	0.100	2.700		2.376	
	Deduction for door	-1	1.000	0.200	2.100		-0.420	
	Total						1.956	
	Total Quantity in cum							1.956
6.018	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							
	Slurry							
	Sump wall	2	13.500		3.000		81.000	
	Sump wall	2	9.500		3.000		57.000	
	inner columns	6	1.200		3.000		21.600	
	Total						159.600	
	Total Quantity in sqm							159.600
6.019	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 & 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>						
	Crystalline Slurry						
	Sump floor	1	9.500	13.500			128.250
	Total						128.250
	Total Quantity in sqm						128.250
6.020	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>						
	W3	12	6.000			0.5800 00	41.760
	Total						41.760
	Total Quantity in kg						41.760
6.021	21.3.1						
	<p>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</p>						
	W3	24	0.700		1.450		24.360

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						24.360
						Total Quantity in sqm	24.360
6.022	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).						
	W3	12	1.500		1.500		27.000
	Total						27.000
						Total Quantity in kg	27.000
6.023	10.15.2						
	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular /L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)						
	DOOR (210*120CM)	1			100.000		100.000
	Total						100.000
						Total Quantity in kg	100.000
6.024	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						
	shutter						
	pump house	1	3.000		2.700	0.9166 70	7.425
	panel room	1	2.500		2.700	0.9166 70	6.188
	Total						13.613
						Total Quantity in sqm	13.613

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
6.025	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	Plastering						
	sump wall	4	10.100		3.000		121.200
	sump wall	4	13.900		3.000		166.800
	sump base slab	1	48.000		0.450		21.600
	sump column	6	1.200		3.000		21.600
	sump beam	4	3.300	0.600			7.920
	sump beam	4	3.700	0.600			8.880
	sump beam	8	2.700	0.600			12.960
	sump beam	5	2.900	0.600			8.700
	sump beam	10	3.000	0.600			18.000
	sump roof	1	14.400	10.400			149.760
	sump roof side	1	49.600		0.150		7.440
	PH & panel room	4	10.100		3.000		121.200
	PH & panel room	4	13.900		3.000		166.800
	PH & panel room columns.	4	1.200		3.000		14.400
	PH & panel room beams	4	3.300		0.300		3.960
	PH & panel room beams	4	3.700	0.600			8.880
	PH & panel room beams	8	2.700	0.600			12.960
	PH & panel room beams	5	2.900	0.600			8.700
	PH & panel room beams	10	3.000	0.600			18.000
	PH & panel room roof slab	2	10.400	14.400			299.520
	PH & panel room sunshade	2	50.400	0.600			60.480
	PH & panel room separation wall	2	9.500	3.000			57.000
	Deduction for panel room door	-1	1.000	0.200	2.100		-0.420
	Deduction for shutter	-1	3.000	0.200	2.700		-1.620
	Deduction for shutter	-1	2.500	0.200	2.700		-1.350
	Deduction for windows	-12	1.500	0.200	1.500		-5.400

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						1307.970
						Total Quantity in sqm	1307.970
6.026	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Primer coat						
	sump wall	2	10.100		3.000		60.600
	sump wall.	2	13.900		3.000		83.400
	sump roof side	1	49.600		0.200		9.920
	PH & panel room	4	10.100		3.000		121.200
	PH & panel room	4	13.900		3.000		166.800
	PH & panel room columns.	4	1.200		3.000		14.400
	PH & panel room beams	4	3.300	0.600			7.920
	PH & panel room beams	4	3.700	0.600			8.880
	PH & panel room beams	8	2.700	0.600			12.960
	PH & panel room beams	5	2.900		0.300		4.350
	PH & panel room beams	10	3.000		0.300		9.000
	PH & panel room roof slab.	2	10.400	14.400			299.520
	PH & panel room roof side	1	49.600		0.150		7.440
	PH & panel room sunshade	2	50.400	0.600			60.480
	PH & panel room separation wall	2	9.500	3.000			57.000
	Deduction for panel room door	-1	1.000	0.200	2.100		-0.420
	Deduction for shutter	-1	3.000	0.200	2.700		-1.620
	Deduction for shutter	-1	2.500	0.200	2.700		-1.350
	Deduction for windows	-12	1.500	0.200	1.500		-5.400
	Total						915.080
						Total Quantity in sqm	915.080
6.027	13.60.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	Painting						
		915.08					915.080
	Total						915.080
							Total Quantity in sqm 915.080
6.028	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						
	.						
	stairs to pump and panel room	1	578.000				578.000
	Total						578.000
							Total Quantity in kg 578.000
6.029	10.26.1						
	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.M.S. tube						
	.						
		289					289.000
	Total						289.000
							Total Quantity in kg 289.000
6.030	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.						
	Water filling						
		1	13.300	9.500	2.700		341.145
	Total						341.145
							Total Quantity in Kilo litre 341.145
6.031	100.41.33						
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.						
	.						
		4					4.000
	Total						4.000
							Total Quantity in no 4.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
6.032	100.31.1.12						
	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): 600mm diameter, Class I.						
		2					2.000
	Total						2.000
						Total Quantity in no	2.000
6.033	13.71						
	Lettering with black Japan pint of approved brand and manufacture						
	Lettering						
		217					217.000
	Total						217.000
						Total Quantity in per Letter per cm height	217.000
6.034	13.61.1						
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	Rolling shutter						
		2	3.000		2.700		16.200
		2	2.500		2.700		13.500
	Total						29.700
						Total Quantity in sqm	29.700
6.035	OD175851/2022-2023						
	Supplying and providing 100mm dia C I vent cowl including fitting charges etc.						
	Vent cowl						
		5					5.000
	Total						5.000
						Total Quantity in no	5.000
6.036	OD175918/2022-2023						
	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						
	Water level Indicator						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
6.037	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						
	Wall casting pipe 400mm						
	Wall casting pipe 400mm	2				0.7100 00	1.420
	Total						1.420
	Total Quantity in quintal						1.420
7	Part VII-Construction of Retaining Wall						
7.001	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						
		1	85.000	2.000	0.200		34.000
	Total						34.000
	Total Quantity in cum						34.000
7.002	OD175264/2022-2023						
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.						
	Dowel Bar						
		1	85*7				595.000
	Total						595.000
	Total Quantity in no						595.000
7.003	4.1.5						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
	PCC						
		1	85.000	2.000	0.200		34.000
	Total						34.000
	Total Quantity in cum						34.000
7.004	5.33.2						

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 above plinth level upto floor V level							
	RCC							
	RCC Mat	1	85.000	1.800	0.250		38.250	
	RCC Wall	1	85.000	(1+.6)/2	(1.5+1.75)/2		110.500	
	RCC Wall	1	85.000	(.6+.3)/2	(1.5+1.75)/2		62.156	
	RCC Wall	1	85.000	0.200	1.200		20.400	
	Total							231.306
	Total Quantity in cum						231.306	
7.005	5.9.1							
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete							
	Centering							
		2	85.000		0.250		42.500	
	Total							42.500
	Total Quantity in sqm						42.500	
7.006	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.							
	Centering							
	RCC Wall	2	85.000		(1.5+1.75)/2		276.250	
	RCC Wall	2	85.000		1.200		204.000	
	Total							480.250
	Total Quantity in sqm						480.250	
7.007	16.78.3							
	Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge. With material conforming to Grade - III (size range 26.5 mm to 0.075 mm) having CBR Value - 20							
	granular subbase							

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		1	85.000	1.450	0.800		98.600
	Total						98.600
						Total Quantity in cum	98.600
7.008	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 reinforcement						
		1	231.306			75.000 000	17347.95 0
	Total						17347.95 0
						Total Quantity in kilogram	17347.95 0
7.009	OD175226/2022-2023						
	Providing and fixing 50mm PVC WEEP HOLES at 1.00 m spacing for walls, as per direction of Engineer-in-Charge 50 mm dia 10 Kfg/cm - Internal work- Exposed on wall						
	weep hole						
		165					165.000
	Total						165.000
						Total Quantity in no	165.000
7.010	50.2.25.1						
	Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge						
		1	75.000	3.000	(1.5+3+2.95)/3		558.750
	Total						558.750
						Total Quantity in cum	558.750
8	Part VIII-Construction of Box Culvert						
8.001	2.8.1						
	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil						
	Earth work excavation						
	Culvert	2	4.600	2.000	0.600	0.7000 00	7.728

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Side wall	2	30.000	1.700	0.500	0.7000 00	35.700
	Culvert (road)	2	4.600	2.000	3.000	0.7000 00	38.640
	Total						82.068
						Total Quantity in cum	82.068
8.002	2.9.1						
	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. Ordinary rock						
	excavation (Ordinary rock)						
	Culvert	2	4.600	2.000	0.600	0.3000 00	3.312
	Side wall	2	30.000	1.700	0.500	0.3000 00	15.300
	Culvert (road)	2	4.600	2.000	3.000	0.3000 00	16.560
	Total						35.172
						Total Quantity in cum	35.172
8.003	4.1.5						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
	PCC						
	Culvert	2	4.000	2.000	0.100		1.600
	Side wall	2	30.000	1.700	0.100		10.200
	Culvert (road)	2	4.000	2.000	0.100		1.600
	Total						13.400
						Total Quantity in cum	13.400
8.004	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						
	RCC						
	Culvert base	2	4.000	2.000	0.300		4.800

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Culvert top	2	4.000	2.000	0.300		4.800
	Culvert sides	4	2.000	0.300	2.000		4.800
	Side wall FDN Step I	2	30.000	1.500	0.400		36.000
	Side wall	2	30.000	0.350	2.500		52.500
	Total						102.900
						Total Quantity in cum	102.900
8.005	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						
	RCC						
	KERB (Road)	2	2.000	0.200	0.200		0.160
	KERB	2	1.500	0.200	0.200		0.120
	Total						0.280
						Total Quantity in cum	0.280
8.006	5.9.1						
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	Shuttering						
	Culvert base PCC	2	12.000		0.100		2.400
	Culvert base	2	12.000		0.300		7.200
	Culvert top	2	12.000		0.300		7.200
	Side wall FDN Step PCC	4	30.000		0.100		12.000
	Side wall FDN Step I	4	30.000		0.400		48.000
	Total						76.800
						Total Quantity in sqm	76.800
8.007	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.						
	Wall shuttering						
	Culvert side	4	2.000	0.200			1.600
	Side wall	4	30.000		2.500		300.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						301.600
						Total Quantity in sqm	301.600
8.008	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 for RCC						
	steel	103.18				120.00 0000	12381.60 0
	Total						12381.60 0
						Total Quantity in kilogram	12381.60 0
8.009	50.2.25.1						
	Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge						
	Backfilling						
	Culvert side	2	4.000	1.000	(2+2.3)/2		17.200
	Side wall (bank)	2	30.000	0.500	1.500		45.000
	Side wall (bank)	2	30.000	0.600	1.000		36.000
	Side wall FDN Step I	2	30.000	1.000	0.400		24.000
	Total						122.200
						Total Quantity in cum	122.200
8.010	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						
	Handrail						
	side wall	2	30.000			3.2000 00	192.000
	Culvert	2	2.000			3.5000 00	14.000
	Total						206.000
						Total Quantity in kg	206.000
9	Part IX-Supply of lab equipments						
9.001	OD182828/2022-2023						
	Supply of pH Buffer tablets-pH-4 (10Nos. -1pkt)						
	.						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.002	OD182829/2022-2023						
	Supply of pH Buffer tablets-pH-7 (10Nos. -1pkt)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.003	OD182832/2022-2023						
	Supply of pH Buffer tablets-pH-9 (10Nos. -1pkt)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.004	OD182833/2022-2023						
	Supply of Refrigerator						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.005	OD182835/2022-2023						
	Supply of Flocculator:- (Jar Testing Apparatus or MultiSpindle Stirrer):- Continuous duty geared motor drive with built in speed control, S.S Stirring shafts with adjustable height S.S. propeller and tube lights for illumination available in various models. KFLO-2 1/20 0-100rpm 6nos. Multi Spindle (HSN-8421, Make-Kemi)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.006	OD182848/2022-2023						
	Supply of Digital pH Meter with Electrode
Model # MK-VI - Make- Eutech						
	.						
		1					1.000
	Total						1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in no							1.000
9.007	OD182849/2022-2023 Supply of Digital Nephelo/Turbidity Meter
Model # 132Make - Eutech						
		1					1.000
Total							1.000
Total Quantity in no							1.000
9.008	OD182882/2022-2023 Supply of Distillation units-All glass, double with borosilicate boiler, borosilicate condenser & amp; quartz heater, horizontal type, Output Capacity: 1.5 Ltr, Electrical Requirements: 230-250 volts single phase 1.5x2kw quartz heater, Cooling water consumption: 100Ltr/Hr, Biological activity: Pyrogen free, pH: 6.9-7, Conductivity S/cm:
1x10-6, Distillate temp: 65-750C, Total Power Consumed: 1.5x2=3KW Cat # 3362041, HSN 8419, Make-Borosil®						
		1					1.000
Total							1.000
Total Quantity in no							1.000
9.009	OD182883/2022-2023 Supply of Bunsen burner mansfield type with all brass springloaded lock type heavy stopcock,
Cat # 973, HSN-8481, Make-Dollar						
		1					1.000
Total							1.000
Total Quantity in no							1.000
9.010	OD182886/2022-2023 Supply of Bunsen burner mansfield type with all brass springloaded lock type heavy stopcock,
Cat # 973, HSN-8481, Make-Dollar.						
		1					1.000
Total							1.000
Total Quantity in no							1.000
9.011	OD182887/2022-2023 Supply of Rubber tube pressure 6x3mm , HSN 4009, Make- National						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.						
		1					1.000
	Total						1.000
						Total Quantity in metre	1.000
9.012	OD182888/2022-2023						
	Supply of Chloroscope ampule type 0.1-2.0PPM (12 Amps) ,HSN-9031,Make-Sumeet						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.013	OD182897/2022-2023						
	Supply of Stop watch digital (Make-9102)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in roll	1.000
9.014	OD182898/2022-2023						
	Supply of Physical balance (Common balance) in glass case, divided door, Bakelite pans, wooden base, capacity 250gm, sensibility 1mg, Model # P-I, (HSN-9016, Make-Keroy)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.015	OD182899/2022-2023						
	Supply of Lamposolv LR, Cat # L20129, (For Spirit Lamp Only), (HSN-3822, Make-Nice)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in Litre	1.000
9.016	OD182904/2022-2023						
	Supply of Physical balance (Common balance) in glass case, divided door, Bakelite pans, wooden base, capacity 250gm, sensibility 1mg, Model # P-I, (HSN-9016, Make-Keroy)						
	.						
		1					1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						1.000
						Total Quantity in no	1.000
9.017	OD182905/2022-2023 Supply of Chemical Balance 0.2mg, Capacity: 200gm
Model # K-6 (HSN 9016,Make-Keroy)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.018	OD182906/2022-2023 Supply of Analytical Weight Box Class A : Brass C.P.weights, in beautiful spray painted velvet
lined teak wood box, calibrated strictly within the error limit of tolerances permitted by N.P.L. India Class A, with certificate of actual Values:-Capacity:1 mg to 100 gm, Cat # 701 A (HSN-8423,Make-Dollar)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.019	OD182908/2022-2023 Supply of Water testing kit (for the estimation of total
hardness), Cat # W 25550, (HSN 3822,Make-Nice)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.020	OD182933/2022-2023 Supply of Water testing kit (for the estimation of calcium hardness), Cat # W 25525 (HSN 3822,Make Nice)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.021	OD182962/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of Water testing kit (For the estimation of fluoride, chloride and residual chlorine), Cat # W25535 (HSN-3822, Make-Nice)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.022	OD182963/2022-2023						
	Supply of Water Testing kit (Residual Chlorine) Cat #W 25540, (HSN-3822, Make-Nice)						
	.	1					1.000
	Total						1.000
						Total Quantity in Litre	1.000
9.023	OD182985/2022-2023						
	Supply of Water Testing Kit (For the estimation of total alkalinity and pH), Cat # W 25530 (HSN-3822, Make-Nice), 2x200 te						
	.	1					1.000
	Total						1.000
						Total Quantity in set	1.000
9.024	OD182987/2022-2023						
	Supply of Water testing kit (For the estimation of arsenic) Cat # W 25515, (HSN-3822, Make Nice) - 25te						
	.	1					1.000
	Total						1.000
						Total Quantity in tonne	1.000
9.025	OD182990/2022-2023						
	Supply of Water testing kit - refill pack (Reagents only) (For the estimation of arsenic), Cat # W 25615. (HSN- 3822, Make- Nice)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.026	OD182991/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of Water testing kit (For the estimation of phosphate & iron), Cat # W 25520(HSN 3822, Make- Nice) -2x200 t						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.027	OD182992/2022-2023						
	Supply of Water testing kit (for the estimation of Nitrate, Nitrite and ammonium in water) Cat # W 25560 (HSN- 3822, Make- Nice)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.028	OD182994/2022-2023						
	Supply of Water testing kit (Microbiological testing), Cat # W25570(HSN- 3822, Make- Nice) - 10 te						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.029	OD182997/2022-2023						
	Supply of Water testing kit (for the estimation of dissolved oxygen) Cat # W 25565 (HSN 3822, Make Nice) -25 te						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.030	OD182998/2022-2023						
	Supply of Digital Conductivity Meter with Cell Model # 304 (HSN- 9027, Make- Systronics)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.031	OD182999/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of µControlled based UV/Vis.Spectrophotometer (HSN- 9027, Make Systronics)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.032	OD183001/2022-2023						
	Supply of Electronic balance, Accuracy: 0.01gm (10mg), Capacity: 300gm, Model # HJ26 (HSN- 8423, Make- Hercules)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.033	OD183002/2022-2023						
	Supply of Electronic Balance Top Pan, External Calibration, Accuracy 1mg (0.001gm) Capacity 220gm Pan size 100x100mm Model BL220H (Make- Shimadzu)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.034	OD183004/2022-2023						
	Supply of Bacteriological Incubator (Bottom Heated Thermostatic (Inner chamber & trays Aluminium):- Double wall chambers inner made of Aluminium and outer of mild steel sheet duly powder coated with 21/2" thick glass wool insulation. Temperature is controlled by an imported thermostat to a maximum of 1100C with an accuracy of +/- 10C and working temperature of ambient +50C to 800C and without thermometer. Model # Size No. of Trays Heater Capacity KIA-1 300x300x300mm 2 250 W 28 Ltr (HSN 8419, Make- Kemi						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.035	OD183005/2022-2023						
	Supply of Optional:-
a) Micro processor based digital temperature controller for the above (HSN- 8419, Make- Kemi)						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.036	OD183007/2022-2023 Supply of Bacteriological Incubator (Bottom Heated-Thermostatic (Inner chamber & trays Aluminium):- Double wall chambers inner made of Aluminium and outer of mild steel sheet duly powder coated with 21/2" thick glass wool insulation. Temperature is controlled by an imported thermostat to a maximum of 1100C with an accuracy of +/-10C and working temperature of ambient +50C to 800C and without thermometer. Model # Size No. of Trays Heater Capacity KIA-1 300x300x300mm 2 250 W 28 Ltr. (HSN-8419, Make Kemi) b) Air circulation fan for the above						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.037	OD183009/2022-2023 Supply of Nessler Cylinders-Colour comparison, flat bottom, graduated, as per I.S. 4161 Capacity: 100ml Approx. O.D. x Height: 34x180mm, Cat # 2975016 (HSN- 7017, Make Borosil reg;						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.038	OD183012/2022-2023 Supply of Nessler Cylinders-Colour comparison, flat bottom, graduated, as per I.S. 4161, Capacity: 50ml Approx. O.D. x Height: 25x150mm, Cat # 2975012 (HSN- 7017, Make-Borosil reg;)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.039	OD183013/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of Conical Flasks-Erlenmeyer, Graduated, N/M,
Capacity: 100ml, Approx. O.D. x Height: 64x105mm, Approx. Neck O.D.: 22mm,
Cat # 4980016 (HSN- 7017, Make Borosil®)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.040	OD183017/2022-2023						
	Supply of Volumetric Flask, with IC Solid Glass stopperAccuracy as per Class B, Capacity: 100ml, Tolerance: +/-0.20ml, Stopper size: 14/15, Cat # 5641016 (HSN- 7017, Make Borosil®)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.041	OD183018/2022-2023						
	Supply of Volumetric Flask, with IC Solid Glass stopperAccuracy as per Class B, Capacity: 250ml, Tolerance: +/-0.30ml, Stopper size:14/15, Cat # 5641021 (HSN- 7017, Make Borosil®)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.042	OD183030/2022-2023						
	Supply of Volumetric Flask, with IC Solid Glass stopperAccuracy as per Class B, Capacity:						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.043	OD183032/2022-2023						
	Supply of Pipettes, Serological Class B,Capacity : 10x0.1ml Tolerance +/-0.1,Cat # 7080P06
(HSN- 7017, Make-Borosil®)						
	.	1					1.000
	Total						1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in no							1.000
9.044	OD183036/2022-2023 Supply of Burettes-Boroflo, fitted with boroflo GP (General purpose), screw thread stopcocks with PTFE keys, accuracy as per Class B of I.S. 1997:2008,/EN ISO Capacity: 25ml, Graduation interval: 0.1ml, Tolerance: +/- 0.1ml Cat # 2122009 (HSN- 7017, Make Borosil®);						
		1					1.000
Total							1.000
Total Quantity in no							1.000
9.045	OD183037/2022-2023 Supply of Burettes-Straight bore stopcock, accuracy as per Class B of I.S. 1997:2008/EN ISO 385, Capacity: 25ml Graduation interval: 0.1ml, Tolerance: +/-0.1ml, Cat # 2124009. (HSN 7017, Make-Borosil®)						
		1					1.000
Total							1.000
Total Quantity in no							1.000
9.046	OD183038/2022-2023 Supply of Burettes-Boroflo, fitted with boroflo GP (General
purpose), screw thread stopcocks with PTFE keys, accuracy as per Class B of I.S. 1997:2008/EN ISO, Capacity: 50ml, Graduation interval: 0.1ml, Tolerance:+/-0.1ml
Cat # 2122012(HSN- 7017, Make-Borosil®)						
		1					1.000
Total							1.000
Total Quantity in no							1.000
9.047	OD183039/2022-2023 Supply of Burettes-Straight bore stopcock, accuracy as per Class B of I.S. 1997:2008/EN ISO 385, Capacity: 50ml Graduation interval: 0.1ml, Tolerance: +/-0.1ml, Cat # 2124012 (HSN 7017, Make-Borosil®)						
		1					1.000
Total							1.000
Total Quantity in no							1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
9.048	OD183040/2022-2023 Supply of Burettes-Boroflo, fitted with boroflo GP (General purpose), screw thread stopcocks with PTFE keys, accuracy as per Class B of I.S. 1997:2008/EN ISO, Capacity: 100ml, Graduation interval: 0.2ml, Tolerance: +/- 0.2ml, Cat # 2122016 (HSN- 7017, Make Borosil®						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.049	OD183041/2022-2023 Supply of Burettes-Straight bore stopcock, accuracy as per Class B of I.S. 1997:2008/EN ISO 385, Capacity: 100ml Graduation interval: 0.2ml, Tolerance: +/-0.2ml, Cat # 2124016 (HSN 7017, Make-Borosil®						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.050	OD183042/2022-2023 Supply of Retort stand 7x5" (HSN-9027)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.051	OD183043/2022-2023 Supply of Fisher clamp single. (HSN-9027)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.052	OD183044/2022-2023 Supply of Nestler cylinder stand PP 50ml, Cat # 76101 (HSN-3926, Make -Polylab)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.053	OD183045/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Supply of Nestler cylinder stand PP 100ml, Cat # 76102 (HSN-3926, Make - Polylab) (HSN 3926, Make - Polylab)							
	.	1					1.000	
	Total						1.000	
		Total Quantity in no						1.000
9.054	OD183047/2022-2023							
	Supply of Pipette stand horizontal for 12 pipettes, Cat # 79101 (HSN-3926, Make - Polylab)							
	.	1					1.000	
	Total						1.000	
		Total Quantity in no						1.000
9.055	OD183049/2022-2023							
	Supply of Pipette barrel 38x"Oslash;6cm 15" S.SD, Model # 6601 (HSN-7326, Make - Equitron)							
	.	1					1.000	
	Total						1.000	
		Total Quantity in no						1.000
9.056	OD183050/2022-2023							
	Supply of Reagent Bottle, plain N/M, Graduated with IC flat head stopper, Capacity: 125ml, Approx. O.D. x Height: 56x120mm, Neck Stopper size stopper: 19/26 Cat # 1500017 (HSN 7017, Make - Borosil®)							
	.	1					1.000	
	Total						1.000	
		Total Quantity in no						1.000
9.057	OD183051/2022-2023							
	Supply of Reagent Bottle, amber, N/M Graduated with IC flat head stopper Capacity: 1000ml, Approx O.D. x Height: 101x230mm, Neck Stopper
size:29/32, Cat # 1509029 (HSN 7017, Make - Borosil®)							
	.	1					1.000	
	Total						1.000	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total Quantity in no						1.000
9.058	OD183053/2022-2023 Supply of Reagent Bottle, plain N/M, Graduated with IC flat head stopper, Capacity: 500ml, Approx. O.D. x Height: 86x180mm, Neck Stpper size stopper:
24/29 Cat # 1500024(HSN 7017,Make -Borosil®						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.059	OD183054/2022-2023 Supply of Reagent Bottle, plain N/M, Graduated with IC flat head stopper, Capacity: 1000ml, Approx. O.D. x Height: 100x230mm, Neck Stpper size stopper: 29/32 Cat # 1500029 (HSN-7017,Make -Borosil®)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.060	OD183055/2022-2023 Supply of Conical Flasks-Erlenmeyer, Graduated,N/M, Capacity: 1000ml, Approx. O.D. x Height: 131x220mm, Approx. Neck O.D.: 42mm, Cat # 4980029 (HSN-7017,Make - Borosil®)(HSN 7017,Make -Borosil®)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.061	OD183059/2022-2023 Supply of Round Bottom Boiling flasks-short neck, with IC joint: 24/29 Capacity: 1000ml, Height: 210mm, Cat # 4380B29 (HSN-7017,Make -Borosil®)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.062	OD183091/2022-2023 Supply of Round Bottom Boiling flasks-short neck, with IC joint: 24/29 Capacity: 500ml, Height: 170mm, Cat # 4380C24 (HSN-7017,Make -Borosil®)						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.063	OD183092/2022-2023 Supply of Desiccators-Vaccum, Stopcock with PTFE Spindle and porcelain plate, Approx. I.D. of Ground Flange: 200mm Cat # 3083043(HSN 7017,Make -Borosil®						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.064	OD183093/2022-2023 Supply of Desiccator vaccum PP/PC, 200mm, Cat # 55205 (HSN-3926,Make - Polylab)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.065	OD183094/2022-2023 Supply of Liebig Condenser, drip tip, IC inner joint and IC outer joint, Approx.Length of Jacket: 300mm, Approx.overall Height: 450mm, IC inner joint: socket 24/29 IC joint: cone 24/29 ,Cat # 2400090 (HSN-7017,Make -Borosil®)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.066	OD183095/2022-2023 Supply of Mac Cartney bottle (Culture bottle) W/M 30ml (HSN-7017,Make - Borosil®)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.067	OD183107/2022-2023 Supply of Reagent bottle N/M 125ml, Cat # 33302 (HSN-3923,Make -Polylab)						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.068	OD183108/2022-2023						
	Supply of Reagent bottle W/M 125ml, Cat # 33307 (HSN-3923, Make -Polylab)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.069	OD183109/2022-2023						
	Supply of Beaker PP 100ml, Cat # 11102 (HSN 3926, Make -Polylab)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.070	OD183110/2022-2023						
	Supply of Beaker PP 250ml, Cat # 11104 (HSN-3926, Make -Polylab)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.071	OD183112/2022-2023						
	Supply of Spatula S.S 6" (HSN-9027)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.072	OD183115/2022-2023						
	Supply of Stirrer, Glass Rod Approx OD x Length 7x205mm Cat # 9850207 (HSN-7017, Make Borosil®)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
9.073	OD183116/2022-2023						
	Supply of Pipette bulb rubber small (HSN-4014, Make National)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.074	OD183117/2022-2023						
	Supply of Pipette bulb rubber medium (HSN-4014, Make-National)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.075	OD183126/2022-2023						
	Supply of Pipette bulb rubber large (HSN-4014, Make-National)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.076	OD183128/2022-2023						
	Supply of Pipette bulb rubber ex-large (HSN-4014, Make-National)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.077	OD183129/2022-2023						
	Supply of Crucible porcelain with lid 30ml (HSN 6909, Make-National)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.078	OD183133/2022-2023						
	Supply of Crucible silica without lid 25ml (HSN 7017, Make-Infusil)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.079	OD183136/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of China dish porcelain 4" (HSN-6909, Make J.India)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.080	OD183157/2022-2023						
	Supply of Watch glass superior 6"(HSN-7015, Make J.India)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.081	OD183158/2022-2023						
	Supply of Watch glass superior 4" (HSN-7015)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.082	OD183160/2022-2023						
	Supply of Measuring Cylinders-Graduated, single metric scale, with pour out, with hexagonal base, Class B Capacity: 1000ml, Graduation interval: 10.0ml,
Tolerance: +/- 10.0ml, Cat # 3022029 (HSN-7017)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.083	OD183161/2022-2023						
	Supply of Measuring Cylinders-Graduated, single metric scale, with pour out, with hexagonal base, Class B Capacity: 500ml, Graduation interval: 5.0ml,
Tolerance: +/-5.0ml, Cat # 3022024 (HSN-7017)						
		1					1.000
	Total						1.000
	Total Quantity in no						1.000
9.084	OD183163/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of Measuring Cylinders-Graduated, single metric scale, with pour out, with hexagonal base, Class B Capacity: 250ml, Graduation interval: 2.0ml,
Tolerance: +/-2.0ml, Cat #						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.085	OD183164/2022-2023						
	Supply of Durham's tube 1"x6/7mm (HSN-7017						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.086	OD183166/2022-2023						
	Supply of Autoclave (Vertical):- Double wall construction with inner S.S. 304, all these sheets are argon welded & outer chamber made of high quality MS sheet duly powder coated. Electrically heated by means of ISI quality emersion heaters with working pressure 15 PSI. Hydraulically dye pressed Lid from S.S. plate with, easy pedal lifting device, having pressure gauge, two nos safety valve, quick release coupling & handle with heater cover stand. Water level arrangement cut off buzzer system and SS perforated basket supplied along with unit on free of cost.Inner S.S. & Outer M.S. (With energy regulator) Model # Size (Dia x Height) Heater Volume-KAUC-A1 250x450mm - 1.5 K.W. 22 Ltr. (HSN-8419,Make-Kemi)						
	.	1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.087	OD183168/2022-2023						
	Supply of Digital Temperature Controller cum Indicator (Instead of energy regulator) for the above (HSN-8419,Make-Kemi)						
	.	1					1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						1.000
						Total Quantity in no	1.000
9.088	OD183172/2022-2023						
	Supply of Digital Timer for the above(HSN-8419,Make Kemi)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.089	OD183173/2022-2023						
	Supply of Auto Pressure cut off system for the above (HSN-8419,Make-Kemi)						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.090	OD183174/2022-2023						
	Supply of Computer (i3 7th Gen Processor, MB,1TB HDD,20 INCH Monitor, Mouse, Keyboard, etc.) of approved make 3 year warranty						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
9.091	OD183201/2022-2023						
	Supply of UPS system of 1100VA approved make						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
10	Part X-Construction of Compound Wall						
10.00	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)						
	EARTH WORK						
	Foundation	1	208.000	0.600	0.600		74.880
	gate column	4	0.800	0.800	0.800		2.048

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						76.928
						Total Quantity in cum	76.928
10.00 2	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)						
	PCC						
	pcc for foundation	1	208.000	0.600	0.100		12.480
	gate column	4	0.800	0.800	0.100		0.256
	Total						12.736
						Total Quantity in cum	12.736
10.00 3	50.6.1.1 Solid block masonry using pre cast solid blocks (factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part 1 of 1979 for foundation and plinth with thickness 20 cm and above in: CM 1:6 (1 cement : 6 coarse sand) etc complete						
	BRICK MASONRY						
	foundation	1	208.000	0.400	0.500		41.600
	wall	1	182.800	0.200	1.800		65.808
	pillers	84	0.300	0.300	1.800		13.608
	Total						121.016
						Total Quantity in cum	121.016
10.00 4	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)						
	RCC						
	plinth belt	1	208.000	0.400	0.100		8.320
	gate column foundation	4	0.700	0.700	0.300		0.588
	column	4	0.400	0.400	2.400		1.536
	Total						10.444
						Total Quantity in cum	10.444
10.00 5	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete						
	CENTERING AND SHUTTERING						
	gate column foundation	4	2.800		0.300		3.360

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						3.360
						Total Quantity in sqm	3.360
10.00 6	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						
	belt	2	208.000		0.100		41.600
	Total						41.600
						Total Quantity in sqm	41.600
10.00 7	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts						
	CENTERING AND SHUTTERING						
	column	4	1.600		2.400		15.360
	Total						15.360
						Total Quantity in sqm	15.360
10.00 8	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						
	.						
		1	10.444			8.0000 00	83.552
	Total						83.552
						Total Quantity in kilogram	83.552
10.00 9	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	PLASTERING						
	wall	2	182.800		1.800		658.080
	top of wall	1	182.800	0.200			36.560
	pillar	168		0.300	1.830		92.232
	pillar top	84	0.300	0.300			7.560
	gate pillar	4	1.600		1.830		11.712
	gate pillar top	4	0.400	0.400			0.640
	Total						806.784
						Total Quantity in sqm	806.784
10.01 0	13.43.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	·						
	wall	2	208.000		1.800		748.800
	top of wall	1	208.000	0.200			41.600
	pillar	84		0.200	1.800		30.240
	pillar top	84	0.100	0.300			2.520
	gate pillar	4	1.600		1.900		12.160
	gate pillar top	4	0.400	0.400			0.640
	Total						835.960
						Total Quantity in sqm	835.960
10.01	13.60.1						
1	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	·						
		835.96					835.960
	Total						835.960
						Total Quantity in sqm	835.960
10.01	10.25.2						
2	Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works						
	STEEL FOR GATE						
	compound gate	1				542.00 0000	542.000
	Total						542.000
						Total Quantity in kg	542.000
10.01	13.52.1						
3	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.On steel work						
	PAINTING						
		1	90.000				90.000
	Total						90.000
						Total Quantity in sqm	90.000
11	Part XI-Approach road,road restoration and landscaping						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
11.00 1	2.1.1						
	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed:All Kinds of soil						
	Earth work excavation						
		1	72.000	3.000			216.000
	Total						216.000
	Total Quantity in sqm						216.000
11.00 2	16.78.1						
	Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge.With Material conforming to Grade - I (size range 75 mm to 0.075 mm) having CBR Value- 30						
	GSB						
	Road	1	72.000	3.000	0.200		43.200
	Total						43.200
	Total Quantity in cum						43.200
11.00 3	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)						
	cement concrete 1:2:4						
	ROAD	1	72.000	3.000	0.150		32.400
	SIDES OF INTERLOCK	2	75.000	0.250	0.150		5.625
	END OF INTERLOCK	2	3.500	0.500	0.150		0.525
	Total						38.550
	Total Quantity in cum						38.550
11.00 4	OD184480/2022-2023						
	Providing and laying 100 mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.						
	Interlock pavement 100 mm						
	100 mm thick interlock	1	75.000	3.000			225.000
	Total						225.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in sqm							225.000
11.00 5	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.						
centering and shuttering							
	ROAD	2	72.000		0.150		21.600
	SIDES OF INTERLOCK	2	76.000		0.150		22.800
	END OF INTERLOCK	2	3.500		0.150		1.050
Total							45.450
Total Quantity in sqm							45.450
12	Part XII-Water supply and sanitary arrangements						
12.00 1	50.18.7.2.1 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/cm2 - Internal work - Exposed on wall						
		1	85.000				85.000
Total							85.000
Total Quantity in metre							85.000
12.00 2	50.18.7.4.1 Providing and fixing PVC pipes, fittings including fixing the pipe with claps 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	85.000				85.000
Total							85.000
Total Quantity in metre							85.000
12.00 3	50.18.7.5.1 Providing and fixing PVC pipes, fittings including fixing the pipe with claps 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	43.000				43.000
Total							43.000
Total Quantity in metre							43.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
12.00 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 Kg/cm ²						
		1	75.000				75.000
	Total						75.000
		Total Quantity in metre					75.000
12.00 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 10kg/cm ²						
	15 mm pvc						
	bathroom and laboratory	1	33.000				33.000
	Total						33.000
		Total Quantity in metre					33.000
12.00 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						
	push cock						
		2					2.000
	Total						2.000
		Total Quantity in each					2.000
12.00 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.						
	Soap dish						
		2					2.000
	Total						2.000
		Total Quantity in no					2.000
12.00 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.						
	Health faucet						
		1					1.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						1.000
							Total Quantity in no
							1.000
12.009	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
	Total						1.000
							Total Quantity in each
							1.000
12.010	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						
	.	1					1.000
	Total						1.000
							Total Quantity in each
							1.000
12.011	OD169498/2022-2023 Supply and fixing suitable Precast septic tank along with soak pit (R.C.C) including all cost materials and labour charges as per direction of Departmental officers						
	.	1					1.000
	Total						1.000
							Total Quantity in 1 nos
							1.000
12.012	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						
	.	1					1.000
	Total						1.000
							Total Quantity in each
							1.000
12.013	17.28.1.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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
	Total						2.000
						Total Quantity in each	2.000
12.01 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
	Total						2.000
						Total Quantity in each	2.000
12.01 5	17.28.2.1 Flexible pipe 32 mm dia						
	.	2					2.000
	Total						2.000
						Total Quantity in each	2.000
12.01 6	17.35.1.2 Providing and fixing soil, waste and vent pipes: 100 mm dia Centrifugally cast (spun) iron socket & spigot (S & S) pipe as per IS : 3989						
	.	1	23.000				23.000
	Total						23.000
						Total Quantity in metre	23.000
12.01 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 outlet Sand cast iron S & S as per IS : 3989						
	.	2					2.000
	Total						2.000
						Total Quantity in each	2.000
12.01 8	18.33.1						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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
	Total						1.000
						Total Quantity in each	1.000
12.01 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						
		1					1.000
	Total						1.000
						Total Quantity in each	1.000
12.02 0	OD169523/2022-2023 Supplying, covey ,and fixing 40mm G.M ball valve with polythene float for 40 mm connection (heavy quality)including cost of all necessary fittings as per required, jointing materials in any position as per the direction of Departmental officers. no separate payment will be made for acessories, specials.						
		1					1.000
	Total						1.000
						Total Quantity in 1 nos	1.000
12.02 1	OD175983/2022-2023 Supplying, covey ,and fixing 32mm G.M ball valve with polythene float for 32mm connection (heavy quality)including cost of all necessary fittings as per required, jointing materials in any position as per the direction of Departmental officers. no separate payment will be made for acessories, specials.						
		1					1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						1.000
						Total Quantity in no	1.000
12.02 2	OD176010/2022-2023 Supplying, covey ,and fixing 25mm G.M ball valve with polythene float for 25mm
connection (heavy quality)including cost of all necessary fittings as per 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
	Total						1.000
						Total Quantity in no	1.000
12.02 3	OD176053/2022-2023 Supplying, covey ,and fixing G.M ball valve with polythene float for 20mm
connection (heavy quality)including cost of all necessary fittings as per 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
	Total						1.000
						Total Quantity in no	1.000
12.02 4	OD176374/2022-2023 Supplying, covey, fitting, and fixing of 15mm 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 ,tap, shower etc as per the
direction of departmental officers .(No separate payment will be made for accessories specials).						
		2					2.000
	Total						2.000
						Total Quantity in no	2.000
12.02 5	OD176245/2022-2023 Supplying, covey, fitting and fixing 15mm chrome plated angle valve with branch connection of
approved make (As per ASTM D 2467, SHEDULE 80).complete in the all respect including cost of all necessary fittings
as fittings as required, jointing materials in any position as per the direction of departmental officers .(No separate payment will be made for accessories specials).						
		5					5.000
	Total						5.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
Total Quantity in no							5.000	
13	Part XIII-Electrical and Mechanical Items							
13.00	OD182807/2022-2023							
1	Supply, erection, testing and commissioning of Electrical and Mechanical items for 8.25 MLD WTP as per the directions of departmental officer.							
	Electromechanical works							
		1					1.000	
	Total							1.000
Total Quantity in L.S							1.000	
14	Part XIV-Operation and Maintainance charges							
14.00	OD250873/2022-2023							
1	Operation and maintenance of WTP during guarantee period							
		18	30.000				540.000	
	Total							540.000
Total Quantity in Day							540.000	
14.00	OD250874/2022-2023							
2	Supply and delivery of Alum (or as per condition)							
		18	30.000			0.2062 50	111.375	
	Total							111.375
Total Quantity in MT							111.375	
14.00	OD250875/2022-2023							
3	Supply and delivery of Hydrated lime as per specification at dosage(or as per condition)							
		18	30.000			0.1567 50	84.645	
	Total							84.645
Total Quantity in MT							84.645	
15	Part XV- Wiring and Electrification works							
15.00	OD248954/2022-2023							
1								

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm
FRLS PVC
insulated copper conductor single core cable in surface I recessed PVC
conduit, with piano type switch, phenolic
laminated sheet, suitable size MS box and
earthing the point with 1.5 sq. mm FRLS PVC insulated copper
conductor single
core cable etc. as required.
Group B						
	Wiring for light /fan/EF with 1.5 sq mm wire	110					110.000
	Total						110.000
						Total Quantity in no	110.000
15.00 2	OD248955/2022-2023 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.
2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire						
	wiring for circuit/sub main with copper wire 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	200					200.000
	Total						200.000
						Total Quantity in metre	200.000
15.00 3	OD248995/2022-2023 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.
2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire						
	wiring for circuit /sub main with copper wire 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	1	400.000				400.000
	Total						400.000
						Total Quantity in metre	400.000
15.00 4	OD249001/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	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						
	Supplying and fixing of 20 mm medium class PVC conduit	1	1400.000				1400.000
	Total						1400.000
							Total Quantity in metre 1400.000
15.00 5	OD249078/2022-2023 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. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire						
		1	250.000				250.000
	Total						250.000
							Total Quantity in metre 250.000
15.00 6	OD249086/2022-2023 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 2.5 sq. mm + 2 X 2.5 sq. mm earth wire						
		1	200.000				200.000
	Total						200.000
							Total Quantity in metre 200.000
15.00 7	OD249111/2022-2023 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						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
		1	160.000				160.000
	Total						160.000
						Total Quantity in metre	160.000
15.00 8	OD249115/2022-2023 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
	Total						190.000
						Total Quantity in metre	190.000
15.00 9	OD249124/2022-2023 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
	Total						20.000
						Total Quantity in no	20.000
15.01 0	OD249137/2022-2023 providing 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						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
15.01 1	OD249144/2022-2023 providing 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
125A, 16KA						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.						
		2					2.000
	Total						2.000
						Total Quantity in no	2.000
15.01 2	OD249157/2022-2023 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
	Total						4.000
						Total Quantity in no	4.000
15.01 3	OD249162/2022-2023 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
	Total						5.000
						Total Quantity in no	5.000
15.01 4	OD249168/2022-2023 Providing and fixing following capacity TP&N disconnector 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						
	.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
15.01 5	OD249189/2022-2023 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
	Total						6.000
						Total Quantity in no	6.000
15.01 6	OD249208/2022-2023 Providing and fixing following capacity TP&N disconnector 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
	Total						1.000
						Total Quantity in no	1.000
15.01 7	OD249216/2022-2023 Providing and fixing following capacity TP&N disconnector 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
	Total						2.000
						Total Quantity in no	2.000
15.01 8	OD249225/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	:Providing and fixing following capacity TP&N disconnector 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
	Total						1.000
						Total Quantity in no	1.000
15.01 9	OD249227/2022-2023 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.
125A,
35/36 kA (Ics=100%Icu), 3 pole, current limiting type MCCB with microprocessor based release with overload setting
of 50 - 100% having adjustable OL & SC						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
15.02 0	OD249242/2022-2023 :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.
Triple pole						
	5A to 32 A MCB						
		45					45.000
	Total						45.000
						Total Quantity in no	45.000
15.02 1	OD249246/2022-2023 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB
complete with connections, testing and commissioning etc. as required.
40 amps						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.	4					4.000
	Total						4.000
						Total Quantity in no	4.000
15.02 2	OD249256/2022-2023 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB
complete with connections, testing and commissioning etc. as required.
63 amps	4					4.000
	Total						4.000
						Total Quantity in no	4.000
15.02 3	OD249258/2022-2023 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
	Total						1.000
						Total Quantity in no	1.000
15.02 4	OD249270/2022-2023 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
	Total						195.000
						Total Quantity in no	195.000
15.02 5	OD249274/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
	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	
	Total						110.000	
		Total Quantity in no						110.000
15.02 6	OD249276/2022-2023 Supplying and fixing call bell/ buzzer suitable for single phase,
230 V, complete as required.							
	.	3					3.000	
	Total						3.000	
		Total Quantity in no						3.000
15.02 7	OD249354/2022-2023 :Installation, testing and commissioning of pre-wired, fluorescent
fitting / compact fluorescent
fitting of all types, complete with all
accessories and tube/lamp etc. directly on ceiling/ wall,
including
connections with 1.5 sq. mm FRLS PVC insulated, copper
conductor, single core cable and
earthing etc. as required.							
	.	76					76.000	
	Total						76.000	
		Total Quantity in no						76.000
15.02 8	OD249378/2022-2023 Installation, testing and commissioning of ceiling fan, including
wiring the down rods of
standard length (upto 30 cm) with 1.5
sq. mm FRLS PVC insulated, copper conductor, single core
cable etc.
as required							
	.	20					20.000	
	Total						20.000	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
Total Quantity in no							20.000
15.02 9	OD249385/2022-2023 Installation of exhaust fan in the existing opening, including
making good the damage,
connection, testing, commissioning
etc. as required.
510 mm sweep						
		10					10.000
Total							10.000
Total Quantity in no							10.000
15.03 0	OD249386/2022-2023 Providing and fixing following rating and breaking capacity and
pole MCCB with
thermomagnetic release and terminal
spreaders in existing cubicle panel board including drilling holes
in
cubicle panel, making connections, etc. as required.
100 A, 30kA, FPMCCB						
		1					1.000
Total							1.000
Total Quantity in no							1.000
15.03 1	OD249436/2022-2023 :Supplying and fixing following way, single pole and neutral, sheet
steel, MCB distribution
board, 240 V, on surface/recess,
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,
din bar,
interconnections, powder painted including earthing etc.
as required. (But without MCB/RCCB/Isolator)
12
way double door =2Nos						
		1					1.000
Total							1.000
Total Quantity in no							1.000
15.03 2	OD249443/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying and fixing following way, single pole and neutral, sheet
steel, MCB distribution
board, 240 V, on surface/recess,
complete with tinned copper bus bar, neutral bus bar, earth bar,
din bar,
interconnections, powder painted including earthing etc.
as required. (But without MCB/RCCB/Isolator)
8 way double door						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
15.03 3	OD249463/2022-2023 :Supplying and fixing following way, horizontal type three pole
and neutral, sheet steel, MCB
distribution board, 415 V, on
surface/recess, complete with tinned copper bus bar, neutral
bus bar, earth bar,
din bar, interconnections, powder painted
including earthing etc. as required. (But without
MCB/RCCB/
Isolator)
8 way (4 + 24), Double door=3						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
15.03 4	OD249464/2022-2023 :Supplying and fixing following way, horizontal type three pole
and neutral, sheet steel, MCB
distribution board, 415 V, on
surface/recess, complete with tinned copper bus bar, neutral
bus bar, earth bar,
din bar, interconnections, powder painted
including earthing etc. as required. (But without
MCB/RCCB/
Isolator)
6 way (4 + 18), Double door						
		2					2.000
	Total						2.000
						Total Quantity in no	2.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
15.03 5	OD249465/2022-2023 :Supplying and fixing of following ways surface/ recess mounting,
vertical type, 415 V, TPN MCB distribution board of sheet steel,
dust protected, duly powder painted, inclusive of 200 A, tinned
copper
bus bar, common neutral link, earth bar, din bar for
mounting MCBs (but without MCBs and incomer) as
required.
(Note : Vertical type MCB TPDB is normally used where 3 phase
outle4 way
8 way (4 + 24),
Double door=2
						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
15.03 6	OD249475/2022-2023 Supplying and fixing of following ways surface/ recess mounting,
vertical type, 415 V, TPN
MCB distribution board of sheet steel,
dust protected, duly powder painted, inclusive of 200 A, tinned
copper
bus bar, common neutral link, earth bar, din bar for
mounting MCBs (but without MCBs and incomer) as
required.
(Note : Vertical type MCB TPDB is normally used where 3 phase
outlets are required.)
4 way (4
+ 12), Double door						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
15.03 7	OD249476/2022-2023 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.
Triple pole=24Nos						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	.	6					6.000	
	Total						6.000	
		Total Quantity in no						6.000
15.03 8	OD249480/2022-2023 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	
	Total						50.000	
		Total Quantity in no						50.000
15.03 9	OD249535/2022-2023 :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	
	Total						1.000	
		Total Quantity in no						1.000
15.04 0	OD249574/2022-2023 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	
	Total						2.000	
		Total Quantity in no						2.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity	
15.04 1	OD249594/2022-2023 Supplying and fixing following rating, four pole, (three phase
and neutral), 415 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	
	Total						2.000	
		Total Quantity in no						2.000
15.04 2	OD249601/2022-2023 Laying of one number additional PVC insulated and PVC
sheathed / XLPE power cable of 1.1
kV grade of following size
direct in ground in the same trench in one tier horizontal formation
including
excavation, sand cushioning, protective covering and
refilling the trench etc. as required.
Above 35 sq. mm
and upto 95 sq. mm							
	.	1	200.000				200.000	
	Total						200.000	
		Total Quantity in no						200.000
15.04 3	OD249607/2022-2023 Laying of one number additional PVC insulated and PVC
sheathed / XLPE power cable of 1.1
kV grade of following size
direct in ground in the same trench in one tier horizontal formation
including
excavation and refilling the trench etc. as required,
but excluding sand cushioning and protective
covering.
Up to 35 sq.mm=150metre							
	.	1	50.000				50.000	
	Total						50.000	
		Total Quantity in no						50.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
15.04 4	OD249616/2022-2023 Laying of one number additional PVC insulated and PVC
sheathed / XLPE power cable of
1.1 kV grade of following size
direct in ground in the same trench in one tier horizontal formation
including
excavation and refilling the trench etc. as required,
but excluding sand cushioning and protective
covering.
Above 35 sq. mm and upto 95 sq. mm						
		1	50.000				50.000
	Total						50.000
						Total Quantity in no	50.000
15.04 5	OD249636/2022-2023 Erection of metallic pole of following length in
cement concrete
1:3:6 (1 cement : 3
coarse sand : 6 graded stone aggregate
40
mm nominal size) foundation including
excavation and refilling
etc. as
required.
Above 6.5 meter and upto 8.0
meter						
		10					10.000
	Total						10.000
						Total Quantity in no	10.000
15.04 6	OD249641/2022-2023 Supplying and embedding following dia G.I. pipe (medium class)
in pole collar/ foundation
(during casting) for cable entry including
bending the pipe to the required shape complete as required.
32
mm dia						
		10					10.000
	Total						10.000
						Total Quantity in metre	10.000
15.04 7	OD249645/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply and providing imported vertical air terminal with 12 needled nickel coated spike
receiver, supporting rod and stand including all accessories as required with positive absorber(45 metre receiving
capacity), supply and laying required quantity of 25x3mm GI strip through epoxy resin cast support, down conductor
through wall, vertical run/through parapet, supply and installation of test joint box fabricated out of 16 SWG CRCA
sheets, supply and laying required quantity of 32x6mm GI strip through ground including earth work excavation back
filling and jointing etc complete.						
		1					1.000
	Total						1.000
						Total Quantity in no	1.000
15.04 8	OD249654/2022-2023 Supply and fitting 1200mm sweep ceiling fan
with all accessories as required						
		20					20.000
	Total						20.000
						Total Quantity in no	20.000
15.04 9	OD249657/2022-2023 Supply and fitting exhaust fan with all
accessories as required(Heavy duty)						
		10					10.000
	Total						10.000
						Total Quantity in no	10.000
15.05 0	OD249663/2022-2023 Supply and fitting 20 W LED Tube fittings
with all accessories as required						
		76					76.000
	Total						76.000
						Total Quantity in no	76.000
15.05 1	OD249667/2022-2023						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply and laying 2x4 sq.mm alluminium UG
cable including excavation of trench and back
filling pit						
	.	1	100.000				100.000
	Total						100.000
	Total Quantity in metre						100.000
15.05 2	OD249675/2022-2023 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
	Total						60.000
	Total Quantity in metre						60.000
15.05 3	OD249679/2022-2023 Supply conveyance ,installation testing and commissioning of36/40 W LED street/Yard light out put greater than105 lumen/watts 4000-6000K with IP66 protection with LED chip make cree/Lumilled/Nichea with
powerfactor greater than 0.95 at full load ,internal surge protection up to 8 kv and alluminium preasure die cast
powder coated housing acryliccover complete with THD less than 10% power factor greater than 0.98 R0HS
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						
	.	30					30.000
	Total						30.000
	Total Quantity in no						30.000
15.05 4	OD249683/2022-2023 Supply and laying 4x16sq.mm alluminium UG cable including excavation of trench and back filling pit						

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	.						
		1	80.000				80.000
	Total						80.000
						Total Quantity in metre	80.000
15.05 5	OD249690/2022-2023 Supply and providing the following safety items approved by Kerala Electrical
Inspectorate and relevant standards.11kv rubber mat=8set11kv rubber gloves=2 pair
11kv
danger board=10Nos 9ltre capacity fire bucket=3NosFirst aid box=2Nos.
shock treatment
chart=4set 5kg fire estingusher=12 Nos						
	.						
		1					1.000
	Total						1.000
						Total Quantity in set	1.000
15.05 6	OD253942/2022-2023 Expenses of getting electrical connection from KSEB including documentation fee, service charges, energization charges etc Electrical connection expenses						
		1					1.000
	Total						1.000
						Total Quantity in job	1.000