GENERAL ABSTRACT

Jal Jeevan Mission (JJM)-JJM CWSS to Marayoor and Kanthalloor Panchayths in Idukki District-Construction of 3 MLD plant at Kanthalloor-General Civil Work

Sl No	Head Description		Amount
1	General ground levelling and Road formation		2441582.33
2	Construction of Aerator		457548.32
3	Clariflocculator		4644145.14
4	Flash Mixer,Raw water channel and Clear water channel		1388310.51
5	Filter house, Filter media and Backwash water tank		16667103.10
6	Clear water Sump		3404625.42
7	Wash Water Arrangements to nearest safe drain/source after purification of wash water		529892.63
8	Water supply and Sanitary Arrangements		565993.10
9	Mechanical and Electrical work		7534530.58
10	Operation and Maintanance charges		1896933.30
11	INSTALLATION OF FIRE HYDRANT		66512.42
12	Providing and setting up Laboratory		2516041.30
13	External yard Lighting		1396937.21
14	Land Scaping, Gardening, Site levelling after construction		1514134.90
	Total Estimation PAC		45024290.26
C	**Extra Charges**		
C.001	Provision for GST		
	45024290.26	18.00%	8104372.25
	Grand Total		53128662.51
	Round off		871337.49
	Rounded Total(Rs)		54000000.00
	Rupees Five Crore Forty Lakh		

Approved By
Salim P K
(PEN:G12036), Chief Engineer

DETAILED ESTIMATE

Jal Jeevan Mission (JJM)-JJM CWSS to Marayoor and Kanthalloor Panchayths in Idukki District-Construction of 3 MLD plant at Kanthalloor-General Civil Work

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
1	General ground levelling and Road formation						
1.001	2.7.2						
	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Hard rock (requiring blasting)						
	Earth work in excavation by mechanical means						
	for road formation & levelling	1.00000	50.000	3.500	0.400		70.000
	for land levelling	1.00000	10.000	17.500	1.000		175.000
	for compound wall	1.00000	188.000	0.600	0.600		67.680
	Total						**312.680**
						Total Quantity in cum	**312.680**
1.002	50.2.26.1						
	Filling with contractor own earth (excluding rock) in open areas 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.						
	Earth filling						
	for site levelling	1.00000	60.000	12.000	0.800		576.000
	Total						**576.000**
						Total Quantity in cum	**576.000**
1.003	16.91.2						
	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.						
	Providing and laying factory made chamfered edge Cement Concrete paver blocks						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	for foot path	1.00000	100.000	2.000			200.000
	Total						**200.000**
						Total Quantity in sqm	**200.000**
1.004	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)						
	CC 1:2:4						
	For road	1.00000	50.000	3.500	0.200		35.000
	Total						**35.000**
						Total Quantity in cum	**35.000**
1.005	7.1.1						
	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)						
	Random rubble masonry						
	For compound wall	1.00000	188.000	0.600	0.600		67.680
	Total						**67.680**
						Total Quantity in cum	**67.680**
1.006	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						
	Solid block masonry using pre cast solid blocks						
	For compound wall	1.00000	159.000	0.200	1.500		47.700
	piller	94.00000	0.300	0.300	1.500		12.690
	Gate piller	2.00000	0.500	0.500	1.500		0.750
	Total						**61.140**
						Total Quantity in cum	**61.140**
1.007	13.1.2						
	12 mm cement plaster of mix:1:6 (1 cement : 6 fine sand).						
	12 mm cement plaster						
	For compound wall	1.00000	159.000		3.200		508.800

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	For piller	94.00000	1.200		3.200		360.960
	For Gate piller	2.00000	2.000		3.200		12.800
	For Gate piller top	2.00000	0.500	0.500			0.500
	Total						**883.060**
						Total Quantity in sqm	**883.060**
1.008	10.25.2						
	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 work for gate						
		1.00000	150.000				150.000
	Total						**150.000**
						Total Quantity in kg	**150.000**
1.009	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Applying one coat of water thinnable cement primer						
	For compound wall	1.00000	883.060				883.060
	Total						**883.060**
						Total Quantity in sqm	**883.060**
1.010	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						
	Wall painting with acrylic emulsion paint						
		1.00000	883.060				883.060
	Total						**883.060**
						Total Quantity in sqm	**883.060**
2	Construction of Aerator						
2.001	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						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Earth work excavation						
	column footing	4.00000	1.200	1.200	1.500		8.640
	column footing center column	1.00000	1.200	1.200	1.500		2.160
	Total						**10.800**
						Total Quantity in cum	**10.800**
2.002	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 1:2:4						
	PCC for column	4.00000	1.200	1.200	0.150		0.864
	Centre column	1.00000	1.200	1.200	0.150		0.216
	Total						**1.080**
						Total Quantity in cum	**1.080**
2.003	OD196840/2023-2024						
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2m long (1m in rock and 1m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete.						
	DOWEL BARS						
		25.00000					25.000
	Total						**25.000**
						Total Quantity in no	**25.000**
2.004	5.33.1						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level						
	Design mix M-25 , all work up to plinth level						
	RCC footing - for columns	4.00000	1.100	1.100	0.200		0.968
	RCC footing - trapezoidal portion	4.00000	0.312				1.248

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	RCC Foundation - for center column	1.00000	1.100	1.100	0.200		0.242
	RCC Foundation - for center column	1.00000	0.650	0.650	0.450		0.190
	column up to plinth level	4.00000	0.300	0.300	0.650		0.234
	center column up to plinth level	1.00000	3.14*.4	0.150	1.000		0.188
	Plinth beam	1.00000	3.14*2.55	0.300	0.450		1.081
	Total						**4.151**
						Total Quantity in cum	**4.151**
2.005	5.33.2						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level						
	Design mix M-25 , all work above plinth level						
	column	4.00000	0.300	0.300	4.000		1.440
	central column	3.14000	0.400	0.150	6.400		1.206
	brace beam	3.14000	2.550	0.300	0.450		1.081
	beam under collection tray	3.14000	2.550	0.300	0.450		1.081
	cantilever beam	4.00000	0.550	0.300	0.450		0.297
	collection tray + drain bottom slab	1.00000	3.140	3.1*3.1-.55*0.55	0.200	0.250000	1.461
	collection tray - side wall	1.00000	3.14*2.950	0.150	0.400		0.556
	Tray 1 slab	1.00000	3.140	(2.3*2.3-0.55*0.55)	0.200	0.250000	0.783
	Tray 1 side wall	1.00000	3.14*2.15	0.150	0.200		0.203

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Tray 2 slab	1.00000	3.140	(1.7*1.7-0.55*0.55)	0.200	0.250000	0.406
	Tray 2 side wall	1.00000	3.14*1.55	0.150	0.200		0.146
	Tray 3 slab	1.00000	3.140	(1.1*1.1-0.55*0.55)	0.200	0.250000	0.142
	Tray 3 side wall	1.00000	3.140*.95	0.150	0.200		0.089
	Total						**8.891**
						Total Quantity in cum	**8.891**
2.006	5.34.1						
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).						
	Extra for providing richer mixes						
	Qnty same as item no.4&5	1.00000	4.151+8.891				13.042
	Total						**13.042**
						Total Quantity in cum	**13.042**
2.007	5.9.1						
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete						
	Centering & shuttering						
	RCC footing	4.00000	4*1.1		0.200		3.520
	RCC trapezoidal portion	4.00000	(4.8+1.8)/2		0.450		5.940
	RCC footing center column	1.00000	4*1.1		0.200		0.880
	RCC footing center column	1.00000	4*0.65		0.650		1.690
	Plinth beam	2.00000	3.14*2.55		0.450		7.206
	Total						**19.236**
						Total Quantity in sqm	**19.236**
2.008	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.						
	Centering and shuttering						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Collection Tray - side wall	2.00000	3.14*2.95	0.400			7.410
	Tray -1 wall	2.00000	3.14*2.15	0.200			2.700
	Tray -2 side wall	2.00000	3.14*1.55	0.200			1.947
	Tray -3 side wall	2.00000	3.14*0.95	0.200			1.193
	Central column (outer)	1.00000	3.14*0.55	6.400			11.053
	Total						**24.303**
						Total Quantity in sqm	**24.303**
2.009	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						
	collection tray-bottom slab	1.00000	3.140	3.1*3.1		0.20000	6.035
	tray-1 slab	1.00000	3.140	2.3*2.3		0.20000	3.322
	tray-2 slab	1.00000	3.140	1.7*1.7		0.20000	1.815
	tray-3 slab	1.00000	3.140	1.1*1.1		0.20000	0.760
	Total						**11.932**
						Total Quantity in sqm	**11.932**
2.010	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						
	beam under collection tray	1.00000	3.14*2.55	1.200			9.608
	cantilever beam	4.00000	0.550	1.200			2.640
	Brace beam	1.00000	3.140*2.55	1.200			9.608
	Total						**21.856**
						Total Quantity in sqm	**21.856**
2.011	5.9.6						
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts						
	centering and shuttering						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	column	4.00000	1.200	4.000			19.200
	Total						**19.200**
						Total Quantity in sqm	**19.200**
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 for concrete						
	Steel reinforcement for concrete	1.00000	13.042			120.000000	1565.040
	Total						**1565.040**
						Total Quantity in kilogram	**1565.040**
2.013	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	Plastering 12mm thick 1:4 mix.						
	Bottom of Tray, including collection tray	2.00000	3.14*3*3	1/4			14.130
	Tray 1 - side	1.00000	3.14*2.3	0.400			2.889
	Tray 2 - side	1.00000	3.14*1.7	0.300			1.601
	Tray 3 - side	1.00000	3.14*1.1	0.300			1.036
	collection channel - side wall	2.00000	3.14*3.3	0.540			11.191
	column pipe	1.00000	3.14*0.55	5.700			9.844
	beam under tray	1.00000	3.14*2.87	0.900			8.111
	brace beam	1.00000	3.14*2.87	1.200			10.814
	canteliver beam	4.00000	0.550	0.900			1.980
	columns	4.00000	1.200	4.000			19.200
	Total						**80.796**
						Total Quantity in sqm	**80.796**
2.014	11.37						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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.						
	Providing and laying ceramic floor tile						
	For top of Trays including collection tray	1.00000	3.14*2.8	0.300			2.638
	For collection tray sides	1.00000	3.14*2.8	0.400			3.517
	For collection tray sides	1.00000	3.14*2.3	0.400			2.889
	Tray 1 - side	1.00000	3.14*2.3	0.350			2.528
	Tray 2 - side	1.00000	3.14*1.7	0.200			1.068
	Tray 3 - side	1.00000	3.14*1.1	0.200			0.691
	collection channel - inside wall	1.00000	3.14*2.8	0.540			4.748
	Tray 1 top	1.00000	3.14*2.15	0.300			2.025
	Tray 2 top	1.00000	3.14*1.55	0.300			1.460
	Tray 3 top	1.00000	3.14*.95	0.300			0.895
	Total						**22.459**
						Total Quantity in sqm	**22.459**
2.015	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Applying water thinnable primer						
	Bottom of Trays including collection tray	3.14000	3.4*3.4	1/4			9.075
	Tray 1 - bottom vertical side	3.14000	2.350	0.350			2.583
	Tray 2 - side	3.14000	1.750	0.200			1.099
	Tray 3 - side	3.14000	1.150	0.200			0.722

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	collection channel - side wall	3.14000	3.400	0.450			4.804
	central column	3.14000	0.450	5.700			8.054
	beam under tray	3.14000	2.870	0.900			8.111
	canteliver beam	4.00000	0.550	0.900			1.980
	columns	4.00000	1.200	4.900			23.520
	Total						**59.948**
						Total Quantity in sqm	**59.948**
2.016	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 with acrylic emulsion paint						
	central column	3.14000	0.450	5.700			8.054
	beam under tray	3.14000	2.870	0.900			8.111
	canteliver beam	4.00000	0.550	0.900			1.980
	columns	4.00000	1.200	4.900			23.520
	Total						**41.665**
						Total Quantity in sqm	**41.665**
3	Clariflocculator						
3.001	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						
	Earthwork excavation						
		0.78500	14.000	14.000	1.200		184.632
	Total						**184.632**
						Total Quantity in cum	**184.632**
3.002	OD194254/2023-2024						
	DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Dowel bars						
		50.00000					50.000
	Total						**50.000**
						Total Quantity in no	**50.000**
3.003	4.1.3						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)						
	Providing PCC 1:2:4						
	for floor slab	0.25000	3.140	12.7*12.7	0.250		31.653
	Total						**31.653**
						Total Quantity in cum	**31.653**
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						
	Providing RCC design mix M-25						
	Floor slab	0.25000	3.140	12.4*12.4	0.300		36.210
	Total						**36.210**
						Total Quantity in cum	**36.210**
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						
	Providing RCC design mix M-25						
	Side of pit	1.00000	3.14*1.100	0.300	0.700		0.725
	Side wall of clarifier	1.00000	3.140*11.8	0.300	4.000		44.462

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	haunch	0.50000	3.140*11.5	0.500	0.700		6.319
	column for supporting flocculator side wall	5.00000	0.300	0.300	0.700		0.315
	Beam for supporting flocculator side wall	1.00000	3.14*5.35	0.300	0.400		2.016
	flocculator side wall	1.00000	3.14*5.35	0.150	3.200		8.064
	Collecting channel	1.00000	3.14*11.2	0.300	0.100		1.055
	Collecting channel side wall	1.00000	3.14*10.8	0.100	0.500		1.696
	Central shaft	1.00000	3.14*.5	0.150	4.500		1.060
	cover slab of Central shaft	0.25000	3.140	.65*.65	0.150		0.050
	Walk way	1.00000	3.140*12.5	1.000	0.150		5.888
	Total						**71.650**
						Total Quantity in cum	**71.650**
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).						
	Extra Providing RCC design mix M-30						
	qnty same as item no. 4&5	1.00000	36.210+71.65				107.860
	Total						**107.860**
						Total Quantity in cum	**107.860**
3.007	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						
	Pcc levelling	1.00000	3.14*12.7	0.250			9.970
	Floor slab side	1.00000	3.14*12.4	0.300			11.681
	Total						**21.651**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in sqm	**21.651**
3.008	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.						
	centering and shuttering						
	side of pit	1.00000	3.14*1.1	0.700			2.418
	Side wall of Clarifier- inside	1.00000	3.14*11.5	4.000			144.440
	Side wall of Clarifier- out side	1.00000	3.14*12.1	4.000			151.976
	column for supporting flocculator side wall	5.00000	4*0.3	0.700			4.200
	Beam for supporting flocculator side wall	1.00000	3.14*5.35	1.100			18.479
	flocculator side wall - in side	1.00000	3.14*5.2	3.000			48.984
	flocculator side wall - out side	3.14000	5.500	3.000			51.810
	collecting channel	1.00000	3.14*11.2	0.300			10.550
	collecting channel side wall- inner	3.14000	10.700	0.400			13.439
	collecting channel side wall- outer	3.14000	10.900	0.500			17.113
	central shaft	3.14000	0.500	4.500			7.065
	cover slab of central shaft	3.14000	.65*.65	1/4			0.332
	Walk way	3.14000	12.500	1.000			39.250
	Walk way - side	3.14000	13.500	0.150			6.359
	cover slab of central shaft-side	3.14000	0.650		0.150		0.306
	Total						**516.721**
						Total Quantity in sqm	**516.721**
3.009	5.22.6						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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						
	Steel reinforcement	1.00000	36.210+71.65			120.000000	12943.200
	Total						**12943.200**
						Total Quantity in kilogram	**12943.200**
3.010	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	Cement plastering 1:4, 12mm thick						
	Floor slab inside	1.00000	3.14*11.5*11.5			0.250000	103.816
	Side of pit	1.00000	3.14*1.1	0.700			2.418
	Side wall of Clarifier- inside	1.00000	3.14*11.5	4.000			144.440
	Side wall of Clarifier-out side	1.00000	3.14*12.1	4.000			151.976
	column for supporting flocculator side wall	5.00000	4*.3	0.700			4.200
	Beam for supporting flocculator side wall	1.00000	3.14*5.35	1.100			18.479
	flocculator side wall - in side	1.00000	3.14*5.2	3.000			48.984
	flocculator side wall - out side	1.00000	3.14*5.5	3.000			51.810
	collecting channel top& bottom	2.00000	3.14*11.2	0.300			21.101
	collecting channel side wall	6.28000	10.800	0.450			30.521
	central shaft	1.00000	3.14*0.65	4.500			9.185
	cover slab of central shaft	3.14000	0.650*.65	1/4			0.332
	Walkway	6.28000	12.500	1.000			78.500

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Walkway- side	3.14000	13.500	0.150			6.359
	cover slab of central shaft-side	1.00000	3.14*0.65	0.150			0.306
	Total						**672.427**
						Total Quantity in sqm	**672.427**
3.011	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, reservior, 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						
	Applying integral crystalline slurry						
	Side wall of Clarifier- inside	1.00000	3.14*11.5	4.000			144.440
	flocculator side wall - in side	1.00000	3.14*5.2	3.200			52.250
	flocculator side wall - out side	3.14000	5.500	3.200			55.264
	collecting channel side wall- inner	6.28000	10.800	0.450			30.521
	central shaft	6.28000	0.650	4.500			18.369
	Total						**300.844**
						Total Quantity in sqm	**300.844**
3.012	22.23.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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, reservior, 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 horizontal surface one coat @1.10 kg per sqm.						
	Applying integral crystalline slurry						
	base slab	1.00000	3.14*11.5*11.5	1/4			103.816
	collecting channel	1.00000	3.14*10.8	0.300			10.174
	Total						**113.990**
						Total Quantity in sqm	**113.990**
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						
	Applying water thinnable cement primer						
	Quantity same as plastering	1.00000	672.427				672.427
	Total						**672.427**
						Total Quantity in sqm	**672.427**
3.014	13.83.2						
	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile including applying additional coats wherever required to achieve even shade and colour.Two coats						
	Wall painting with acrylic emulsion paint						
	Side wall of Clarifier-out side	1.00000	3.14*12.1	4.000			151.976
	central shaft - cover slab	3.14000	.65*.65	1/4			0.332
	Walk way	6.28000	14.000	1.000			87.920
	Total						**240.228**
						Total Quantity in sqm	**240.228**
3.015	10.26.3						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer.G.I. pipes						
	Providing hand rails						
	walkway	800.0000					800.000
	Total						**800.000**
						Total Quantity in kg	**800.000**
3.016	100.1.1						
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.						
	Excavating trenches for pipe laying						
	for 350mm DI pipe	1.00000	40.000	1.100	1.300		57.200
	Total						**57.200**
						Total Quantity in cum	**57.200**
3.017	100.14.6						
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 350mm diameter Ductile Iron Class K-9 Pipes.						
	laying of 350mm DI K9						
	350mm DI K9	1.00000	40.000				40.000
	Total						**40.000**
						Total Quantity in metre	**40.000**
3.018	100.98.120						
	Supply of DI K9 Pipe Conforming to IS 8329/2000, 350mm Dia.						
	Supply 350mm DI K9						
	350mm DI K9	1.00000	40.000				40.000
	Total						**40.000**
						Total Quantity in metre	**40.000**
3.019	100.98.464						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 350mm.						
	Supply of CI D/F sluice valve 350mm dia						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	for clariflocculator scour	1.00000					1.000
	for raw water channel scour	1.00000					1.000
	Total						**2.000**
						Total Quantity in no	**2.000**
3.020	100.31.1.8						
	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): 350mm diameter, Class I.						
	fixing CI sluice valve						
	fixing CI sluice valve	2.00000					2.000
	Total						**2.000**
						Total Quantity in no	**2.000**
3.021	18.68.1						
	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia						
	Providing and laying DI specials						
	350mm wall casing pipe	2.00000				1.08000	2.160
	350mm - 90 degree bend	4.00000				0.90000	3.600
	350mm - 45 degree bend	2.00000				0.65000	1.300
	350mm - 22.5 degree bend	2.00000				0.54000	1.080
	350mm - 11.25 degree bend	2.00000				0.47000	0.940
	350 x 350 mm tee	2.00000				1.02000	2.040
	Total						**11.120**
						Total Quantity in quintal	**11.120**
3.022	18.70.6						
	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:350 mm dia pipes						
	Providing push on joints						
	350mm DI K9	8.00000					8.000
	Total						**8.000**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in joint	**8.000**
3.023	OD194255/2023-2024						
	Labour for cutting D.I. pipe with steel saw. 350 mm diameter D.I. pipe						
	labour for cutting 350 mm DI pipe						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in Each Cut	**4.000**
3.024	18.30.8						
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:350 mm diameter pipe						
	Providing flanged joints						
	350mm DI K9	4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
3.025	100.35.6						
	Testing 350mm DI/CI pipeline with potable water to the required test pressure. 350 mm dia Observed Data derived from item no.1024 of PHED DATA						
	Testing of 350 mm DI pipe						
		1.00000	40.000				40.000
	Total						**40.000**
						Total Quantity in metre	**40.000**
4	Flash Mixer,Raw water channel and Clear water channel						
4.001	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						
	Flash mixer	3.14000	4.000	4.000	1.500	0.250000	18.840
	Total						**18.840**
						Total Quantity in cum	**18.840**
4.002	2.8.1						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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 in excavation						
	for column-Raw Water Channel	7.00000	1.500	1.500	1.500		23.625
	Clear water Channel	1.00000	20.000	1.000	1.500		30.000
	Total						**53.625**
						Total Quantity in cum	**53.625**
4.003	4.1.3						
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)						
	Providing and laying PCC 1:2:4						
	Column footing-Raw water channel	7.00000	1.500	1.500	0.150		2.363
	Flash mixer-PCC	1.00000	3.14*2.3*2.3		0.150	0.250000	0.623
	Flash mixer-PCC inside	1.00000	3.14*1.3*1.300		0.500	0.250000	0.663
	CW channel PCC	1.00000	20.000	1.000	0.150		3.000
	Total						**6.649**
						Total Quantity in cum	**6.649**
4.004	5.33.1						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level						
	Providing and laying design mix M25						
	Column footing-Raw water channel	7.00000	1.200	1.200	0.200		2.016
	Column footing trapezoidal portion	7.00000	0.312				2.184

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Column up to plinth beam	7.00000	0.300	0.300	0.750		0.473
	Plinth beam-Raw water channel	1.00000	25.000	0.300	0.450		3.375
	Clear water channel- floor slab	1.00000	20.000	0.700	0.200		2.800
	Clear water channel- side wall	2.00000	20.000	0.150	0.300		1.800
	Clear water channel-cover slab	40.00000	0.500	0.700	0.200		2.800
	Total						**15.448**
						Total Quantity in cum	**15.448**
4.005	5.33.2						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level						
	Providing and laying design mix M-25						
	Flash mixer-Bottom slab	1.00000	3.140	1.0*1.0	0.300		0.942
	Flash mixer-side wall	1.00000	3.14*1.5	0.200	2.500		2.355
	Flash mixer-walk way	1.00000	3.140*2.0	0.800	0.150		0.754
	Column-Raw water channel	7.00000	0.300	0.300	5.200		3.276
	Tie beam-Raw water channel	1.00000	25.000	0.300	0.450		3.375
	Beam-Raw water channel	1.00000	25.000	0.300	0.450		3.375
	Bottom slab-Raw water channel	1.00000	25.000	0.550	0.200		2.750
	Side wall-Raw water channel	2.00000	25.000	0.150	0.350		2.625
	Cover slab-Raw water channel	50.00000	0.550	0.500	0.150		2.063
	Total						**21.515**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in cum	**21.515**
4.006	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).						
	Providing and laying design mix M-25						
	Qnty same as item No. 4 & 5	1.00000	15.448+21.515				36.963
	Total						**36.963**
						Total Quantity in cum	**36.963**
4.007	5.9.1						
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete						
	Centering & shuttering						
	Raw water channel-Column footing	7.00000	4*1.2	0.200			6.720
	Raw water channel-trapezoidal portion	7.00000	4*0.825	0.450			10.395
	Raw water channel-column up to plinth level	7.00000	1.200	0.750			6.300
	Raw water channel-Plinth beam	1.00000	25.000	1.200			30.000
	Clear water channel -floor slab side	1.00000	2*20.000		0.200		8.000
	Total						**61.415**
						Total Quantity in sqm	**61.415**
4.008	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.						
	Centering and shuttering						
	Flash mixer-Sidewall	2.00000	3.140	1.500	2.500		23.550
	Raw water channel-outside wall	2.00000	25.000		0.550		27.500

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Raw water channel-inside wall	2.00000	25.000		0.350		17.500
	Clear water channel-inside wall	2.00000	20.000		0.300		12.000
	Clear water channel-outside wall	2.00000	20.000		0.500		20.000
	Clear water channel-coverslab side	40.00000	2.400		0.200		19.200
	Total						**119.750**
						Total Quantity in sqm	**119.750**
4.009	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						
	Flash mixer-walk way bottom	1.00000	3.140	2.500	0.800		6.280
	Flash mixer-walk way side	1.00000	3.140	3.300	0.150		1.554
	Raw water channel-Bottom slab	1.00000	25.000	0.550			13.750
	Raw water channel-cover slab	50.00000	2.100	0.150			15.750
	Total						**37.334**
						Total Quantity in sqm	**37.334**
4.010	5.9.5						
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers						
	Centering & shuttering						
	Tie beam	1.00000	25.000	1.200			30.000
	Total						**30.000**
						Total Quantity in sqm	**30.000**
4.011	5.9.6						
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts						
	Centering & shuttering						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	column	7.00000	1.200	5.200			43.680
	Total						**43.680**
						Total Quantity in sqm	**43.680**
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 levelThermo - Mechanically Treated bars of grade Fe-500D or more						
	Steel reinforcement for RCC works						
	Reinforcement	1.00000	36.963			120.000000	4435.560
	Total						**4435.560**
						Total Quantity in kilogram	**4435.560**
4.013	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	12mm Cement plastering 1:4 mix						
	Flash mixer-Side wall - inside	1.00000	3.140	1.300	2.000		8.164
	Flash mixer-Side wall - out side	1.00000	3.140	1.700	2.500		13.345
	Flash mixer-Walkway - top& bottom	2.00000	3.140	2.200	0.800		11.053
	Flash mixer-Walkway -side	1.00000	3.140	3.300	0.150		1.554
	Raw water channel-column	7.00000	1.200		5.200		43.680
	Raw water channel-beam	1.00000	25.000		1.200		30.000
	Raw water channel-inside slab& side wall	1.00000	25.000	0.950			23.750
	Raw water channel-outside slab& side wall	1.00000	25.000	1.650			41.250
	Raw water channel-cover slab top	50.00000	0.500		0.550		13.750
	Clear water channel-side wall	4.00000	20.000		0.450		36.000
	Clear water channel-bottom slab	1.00000	20.000	0.700			14.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Clear water channel-cover slab top	1.00000	20.000	0.700			14.000
	Clear water channel-cover slab side	1.00000	2*20.55		0.200		8.220
	Total						**258.766**
						Total Quantity in sqm	**258.766**
4.014	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Applying water thinnable cement primer						
	Flash mixer-Side wall - out side	1.00000	3.140	1.700	2.500		13.345
	Flash mixer-Walk way - top and bottom	2.00000	3.140	2.500	0.800		12.560
	Flash mixer-Walk way -side	1.00000	3.140	3.300	0.150		1.554
	Raw water channel -column	7.00000	1.200		5.200		43.680
	Raw water channel -beam	2.00000	25.000		1.200		60.000
	Raw water channel -outside	1.00000	25.000		1.650		41.250
	Raw water channel -cover slab top	50.00000	0.500		0.550		13.750
	Total						**186.139**
						Total Quantity in sqm	**186.139**
4.015	13.60.1						
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	Wall painting with acrylic emulsion paint						
	Qnty same as Item no. 14	1.00000	186.139				186.139
	Total						**186.139**
						Total Quantity in sqm	**186.139**
4.016	10.26.3						
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer.G.I. pipes						
	Providing and fixing hand rail						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Flash mixer-Walkway	1.00000	180.000				180.000
	Raw water channel-Providing and fixing handrails	1.00000	300.000				300.000
	Total						**480.000**
						Total Quantity in kg	**480.000**
4.017	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, reservior, 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						
	Applying integral crystalline slurry						
	Side wall inside	2.00000	25.000		0.300		15.000
	Side wall inside	2.00000	20.000		0.300		12.000
	Flash mixer inside wall	1.00000	1.300		2.000		2.600
	Total						**29.600**
						Total Quantity in sqm	**29.600**
4.018	22.23.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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, reservior, 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 horizontal surface one coat @1.10 kg per sqm.						
	Applying integral crystalline slurry						
	Raw water channel-floor slab	1.00000	25.000		0.550		13.750
	Clear water channel	1.00000	20.000	0.550			11.000
	Flash mixer floor	1.00000	3.14*1.3*1.3			0.25000	1.327
	Total						**26.077**
						Total Quantity in sqm	**26.077**
5	Filter house, Filter media and Backwash water tank						
5.001	2.6.1						
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil						
	Earth work in excavation						
		1.00000	9.500	12.200	1.500		173.850
	Total						**173.850**
						Total Quantity in cum	**173.850**
5.002	OD194243/2023-2024						
	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 3 m, disposed earth to be levelled and neatly dressed. All classes of soil.						
	Earth work excavation lift from 1.5 m to 3 m						
	filter bead	1.00000	9.500	12.200	1.500		173.850

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						**173.850**
						Total Quantity in cum	**173.850**
5.003	OD195929/2023-2024						
	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 - second depth						
	Earth work in excavation						
	filter bead	1.00000	9.500	12.200	1.000		115.900
	Total						**115.900**
						Total Quantity in cum	**115.900**
5.004	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 in excavation						
	Column foundation	18.00000	1.500	1.500	1.500		60.750
	Total						**60.750**
						Total Quantity in cum	**60.750**
5.005	OD194245/2023-2024						
	DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete						
	Dowel bars						
		40.00000					40.000
	Total						**40.000**
						Total Quantity in no	**40.000**
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)						
	Providing PCC 1:2:4						
	levelling filter bed	1.00000	12.100	8.900	0.150		16.154
	filling gullet	3.00000	3.500	0.700	0.700		5.145

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	porch	1.00000	8.400	3.300	0.150		4.158
	Lobby	1.00000	7.330	3.800	0.150		4.178
	stair room	1.00000	3.800	3.580	0.150		2.041
	Chlorine room	1.00000	3.980	7.330	0.150		4.376
	Chemical room	1.00000	8.030	3.570	0.150		4.300
	Blower	1.00000	3.850	3.550	0.150		2.050
	wash & toilet	2.00000	3.200	1.690	0.150		1.622
	Provision for unforseen quantity	5.00000					5.000
	Column- Footing	18.00000	1.500	1.500	0.150		6.075
	Total						**55.099**
						Total Quantity in cum	**55.099**
5.007	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						
	Providing design mix M25						
	Filter house plinth beam	2.00000	16.330	0.450	0.600		8.818
	Filter house plinth beam	2.00000	12.280	0.450	0.600		6.631
	Filter house Plinth beam	1.00000	8.400	0.300	0.450		1.134
	Filter house plinth beam	3.00000	11.500	0.450	0.600		9.315
	Filter house plinth beam	1.00000	4.030	0.450	0.600		1.088
	Filter house plinth beam	3.00000	3.300	0.300	0.450		1.337

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Filter bed & pipe gallery floor	1.00000	11.800	8.600	0.300		30.444
	Filter bed -floor	1.00000	11.450	4.500	0.300		15.458
	clear water channel in pipe gallery bottom slab	1.00000	12.320	0.900	0.200		2.218
	clear water channel side wall	2.00000	12.320	0.150	1.000		3.696
	clear water channel cover slab	1.00000	12.320	0.900	0.100		1.109
	Manifauld side wall	6.00000	3.000	0.150	0.500		1.350
	Total						**82.598**
						Total Quantity in cum	**82.598**
5.008	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						
	Providing design mix M25						
	Column in filter bed	12.00000	0.450	0.600	3.800		12.312
	Column in filter bed	4.00000	0.300	0.300	3.800		1.368
	Column in filter bed	6.00000	0.300	0.300	2.170		1.172
	column ground floor	14.00000	0.450	0.600	4.000		15.120
	column ground floor	4.00000	0.300	0.300	4.000		1.440
	column first floor	16.00000	0.300	0.450	3.000		6.480
	Column-Backwash tank	6.00000	0.300	0.300	3.000		1.620
	Side wall of bed including pipe gallery	3.00000	11.500	0.250	3.820		32.948

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Gullet wall	1.00000	11.500	0.250	3.720		10.695
	Side wall of bed including pipe gallery	2.00000	8.300	0.250	3.820		15.853
	Side wall of bed including pipe gallery	2.00000	4.450	0.250	3.000		6.675
	roof beam -filter bed	4.00000	8.300	0.300	0.450		4.482
	roof beam-filter bed	3.00000	11.500	0.300	0.450		4.658
	roof slab-filter bed	1.00000	8.600	11.800	0.150		15.222
	Deduction-roof slab-filter bed	-3.00000	2.200	1.880	0.150		-1.861
	Deduction-roof slab-pipe gallery	-1.00000	1.750	9.500	0.150		-2.494
	GF roof beam	2.00000	16.330	0.300	0.450		4.409
	GF roof beam	2.00000	12.280	0.300	0.450		3.316
	GF roof beam	1.00000	8.400	0.300	0.450		1.134
	GF roof beam	3.00000	11.500	0.300	0.450		4.658
	GF roof beam	1.00000	4.030	0.300	0.450		0.544
	GF roof beam	3.00000	3.300	0.300	0.450		1.337
	GF lintel	1.00000	121.050	0.200	0.150		3.632
	Sunshade	1.00000	81.000	0.600	0.100		4.860
	GF -roof slab	1.00000	12.500	11.800	0.150		22.125
	GF -roof slab-deduction	-1.00000	4.050	7.480	0.150		-4.544
	GF -roof slab-porch	1.00000	8.700	3.450	0.150		4.502
	GF -roof slab-deduction-stair portion	-1.00000	3.000	2.340	0.150		-1.053

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Staircase to alum lime tank	24.00000	1.000	0.300	0.150	0.500000	0.540
	Staircase landing	2.00000	1.000	1.000	0.150		0.300
	Staircase slab	1.00000	4.470	1.000	0.100		0.447
	Staircase slab	1.00000	4.020	1.000	0.100		0.402
	Main staircase steps	22.00000	1.200	0.300	0.150	0.500000	0.594
	Main staircase landing	2.00000	1.200	1.200	0.150		0.432
	Main staircase slab	1.00000	3.500	1.200	0.100		0.420
	Main staircase slab	1.00000	2.300	1.200	0.100		0.276
	Main staircase slab	1.00000	1.700	1.200	0.100		0.204
	FF roof beam	4.00000	12.400	0.300	0.450		6.696
	FF roof beam	4.00000	11.500	0.300	0.450		6.210
	Alum,lime tank slab	1.00000	4.500	2.500	0.200		2.250
	Alum, lime tank - side wall	2.00000	4.500	0.150	1.300		1.755
	Alum, lime tank - side wall	5.00000	1.500	0.150	1.300		1.463
	Alum, lime tank - partitian wall	1.00000	4.500	0.150	0.500		0.338
	Alum, lime room landing	1.00000	4.830	0.900	0.150		0.652
	FF lintel	1.00000	87.500	0.200	0.150		2.625
	Sunshade	1.00000	50.200	0.600	0.100		3.012
	FF roof slab	1.00000	12.700	11.800	0.150		22.479
	Main staircase steps	22.00000	1.200	0.300	0.150	0.500000	0.594
	Main staircase landing	2.00000	1.200	1.200	0.100		0.288
	Main staircase slab	1.00000	3.500	1.200	0.100		0.420

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Main staircase slab	1.00000	2.300	1.200	0.100		0.276
	Main staircase slab	1.00000	1.700	1.200	0.100		0.204
	Stair case to B/W tank step	15.00000	0.900	0.300	0.200	0.50000	0.405
	Stair case to B/W tank landing	1.00000	0.900	0.900	0.150		0.122
	Stair case to B/W tank slab	1.00000	5.400	0.900	0.100		0.486
	Wash water slab	6.00000	3.000	0.600	0.150		1.620
	Wash water trough-side wall	12.00000	3.000	0.150	0.300		1.620
	Back wash water tank-side wall	1.00000	21.360	0.250	3.400		18.156
	Back wash water tank-haunch	1.00000	22.160	0.300	0.700		4.654
	Back wash water tank-cover slab	1.00000	8.380	4.900	0.150		6.159
	Back wash water tank-beams	1.00000	3.800	0.300	0.300		0.342
	Back wash water tank-floor slab	1.00000	8.380	4.900	0.050		2.053
	Total						**259.104**
						Total Quantity in cum	**259.104**
5.009	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).						
	Providing design mix M30						
	Qnty same as item No. 7 & 8	1.00000	82.598+259.104				341.702
	Total						**341.702**
						Total Quantity in cum	**341.702**
5.010	5.9.1						
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete						
	Centering and shuttering						
	PCC levelling concrete	1.00000	42.000		0.150		6.300

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	RCC slab for bed & pipe gallery	1.00000	40.800		0.300		12.240
	Column Footing	31.00000	6.000		0.150		27.900
	Column Footing - Rectangular portion	31.00000	4.800		0.200		29.760
	Column Footing - Trapezoidal portion	31.00000	3.200		0.450		44.640
	Column Footing - Column portion	31.00000	1.200		0.700		26.040
	Total						**146.880**
						Total Quantity in sqm	**146.880**
5.011	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.						
	Centering and shuttering						
	Side wall of bed including pipe gallery	6.00000	11.500	3.820			263.580
	gullet wall	2.00000	11.500	3.720			85.560
	Side wall of bed including pipe gallery	4.00000	8.300	3.820			126.824
	Side wall of bed including pipe gallery	4.00000	4.450	3.000			53.400
	C/W channel in pipe gallery side wall-inside	2.00000	12.320		1.000		24.640
	C/W channel in pipe gallery side wall-outside	2.00000	12.320		1.000		24.640
	Clear water channel cover slab	1.00000	12.320		0.9+0.3		14.784
	Clear water channel in pipe gallery bottom slab	1.00000	12.320		0.9+0.15 +0.15		14.784
	Manifauld side wall	12.00000	3.000		0.500		18.000
	Manifauld cover slab	3.00000	3.000		0.800		7.200

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	wash water trough -inside side wall	12.00000	3.000		0.300		10.800
	wash water trough -outside side wall	12.00000	3.000		0.450		16.200
	Alum lime tank side wall - inside	4.00000	4.500	1.300			23.400
	Alum lime tank side wall - inside	10.00000	1.500	1.300			19.500
	Alum , lime tank partitian wall	2.00000	4.500	0.500			4.500
	back wash water tank-side wall outside	1.00000	24.160		3.400		82.144
	back wash water tank-side wall inside	1.00000	22.160		2.400		53.184
	back wash water tank-haunch	1.00000	22.160		0.700		15.512
	Total						**858.652**
						Total Quantity in sqm	**858.652**
5.012	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						
	C/W channel cover slab	1.00000	12.320	0.900			11.088
	C/W channel cover slab- side	2.00000	12.32+0.9	0.100			2.644
	Roof slab of filter bed	1.00000	8.600	11.800			101.480
	Deduction -roof slab of filter bed	-3.00000	2.200	1.880			-12.408
	Deduction -roof slab of filter bed	-1.00000	1.750	9.500			-16.625
	Roof slab side of filter bed	1.00000	40.800	0.150			6.120
	Main Stair case - landing	4.00000	1.200	1.200			5.760
	Main Stair case - slab	2.00000	3.500	1.200			8.400

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Main Stair case - slab	2.00000	2.300	1.200			5.520
	Main Stair case - slab	2.00000	1.700	1.200			4.080
	Stair case to back wash water tank-landing	1.00000	0.900	0.900			0.810
	Stair case to back wash water tank-slab	1.00000	5.400	0.900			4.860
	Alum lime tank - landing	1.00000	4.830	0.900			4.347
	Stair alum lime tank landing	2.00000	1.000	1.000			2.000
	Stair case to alum lime tank	1.00000	4.470	1.000			4.470
	Stair case to alum lime tank	1.00000	4.020	1.000			4.020
	GF Roof slab	1.00000	24.800	11.800			292.640
	GF Roof slab - deduction	-1.00000	4.050	7.480			-30.294
	GF Roof slab porch	1.00000	8.700	3.300			28.710
	GF roof slab-deduction-stair portion	-1.00000	3.000	2.340			-7.020
	GF - roof slab side	1.00000	79.800		0.150		11.970
	FF - roof slab	1.00000	12.700	11.800			149.860
	FF - roof slab side	1.00000	49.000		0.150		7.350
	Stair case to Wash water tank	1.00000	5.400	0.900			4.860
	Stair case to Wash water tank	1.00000	0.900	0.900			0.810
	Back wash water tank-cover slab	1.00000	8.380	4.900			41.062
	Back wash water tank-cover slab-sides	1.00000	26.560	0.150			3.984
	Total						**640.498**
						Total Quantity in sqm	**640.498**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
5.013	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						
	beam under filter bed	3.00000	11.500	1.650			56.925
	beam under filter bed	4.00000	8.300	1.650			54.780
	Filter house plinth beam	2.00000	16.330	1.650			53.889
	Filter house plinth beam	2.00000	12.280	1.650			40.524
	Filter house plinth beam	1.00000	8.400	1.200			10.080
	Filter house plinth beam	3.00000	11.500	1.650			56.925
	Filter house plinth beam	1.00000	4.030	1.650			6.650
	GF lintel	2.00000	121.050		0.150		36.315
	GF sunshade	1.00000	81.000		0.700		56.700
	GF roof beam	2.00000	16.330	1.200			39.192
	GF roof beam	2.00000	12.280	1.200			29.472
	GF roof beam	1.00000	8.400	1.200			10.080
	GF roof beam	3.00000	11.500	1.200			41.400
	GF roof beam	1.00000	4.030	1.200			4.836
	GF roof beam	1.00000	3.300	1.200			3.960
	FF lintel	2.00000	87.500		0.150		26.250
	FF sunshade	1.00000	50.200		0.700		35.140
	FF roof beam	4.00000	12.400	1.200			59.520
	FF roof beam	4.00000	11.500	1.200			55.200
	Back wash water tank-beams	2.00000	7.280	0.900			13.104

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Back wash water tank-beams	3.00000	3.650	0.900			9.855
	Total						**700.797**
						Total Quantity in sqm	**700.797**
5.014	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 in filter bed	12.00000	2.100	3.800			95.760
	Column in filter bed	4.00000	1.200	3.800			18.240
	Column in filter bed	6.00000	1.200	2.170			15.624
	Column GF	26.00000	2.100	4.000			218.400
	Column GF	5.00000	1.200	4.000			24.000
	Column FF	16.00000	1.500	3.000			72.000
	Column backwash water tank	6.00000	1.200		3.100		22.320
	Total						**466.344**
						Total Quantity in sqm	**466.344**
5.015	5.9.7						
	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings) except spiral - staircases)						
	Centering and shuttering						
	Stair case to alum lime tank - steps	24.00000	1.000	0.150			3.600
	Stair case slab side	1.00000	4.470	0.100			0.447
	Stair case slab side	1.00000	4.020	0.100			0.402
	Stair case landing slab side	2.00000	1.000	0.100			0.200
	Main Stair case steps GF	44.00000	1.200	0.150			7.920
	Main Stair case landing slab side	4.00000	1.200	0.100			0.480
	Main Stair case - slab side	2.00000	3.500	0.100			0.700

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Main Stair case - slab side	2.00000	2.300	0.100			0.460
	Main Stair case - slab	2.00000	1.700	0.100			0.340
	Stair case to B/W tank steps	15.00000	0.900	0.200			2.700
	Stair case to B/W tank landing slab side	1.00000	0.900	0.100			0.090
	Stair case to B/W tank slab side	1.00000	5.400	0.100			0.540
	Total						**17.879**
						Total Quantity in sqm	**17.879**
5.016	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						
	Qnty same as item no.8	1.00000	341.702			120.000000	41004.240
	Total						**41004.240**
						Total Quantity in kilogram	**41004.240**
5.017	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, reservior, 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						
	Providing Crystalline slurry for water proofing treatment - Vertical						
	filter bed - side wall	3.00000	11.500		3.820		131.790
	filter bed - side wall	2.00000	8.300		3.820		63.412

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	filter bed - side wall	4.00000	4.450		3.000		53.400
	filter bed - gullet wall	2.00000	11.500		3.720		85.560
	WW trough - side wall	24.00000	3.000		0.300		21.600
	Manifauld - side wall	6.00000	3.000		0.500		9.000
	Clear water channel in pipe gallery side wall	2.00000	12.320		1.000		24.640
	Back wash water tank - side wall	1.00000	22.160		3.400		75.344
	Total						**464.746**
						Total Quantity in sqm	**464.746**
5.018	22.23.2						
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, 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 horizontal surface one coat @1.10 kg per sqm.						
	Providing Crystalline slurry for water proofing treatment - Horizontal						
	Floor slab of filter bed including pipe gallery	1.00000	11.500	8.300			95.450
	WW trough slab	6.00000	3.000	0.600			10.800
	Clear water channel in pipe gallery	1.00000	12.320	0.900			11.088
	Back wash water tank - floor slab	1.00000	7.280	3.800			27.664
	Total						**145.002**
						Total Quantity in sqm	**145.002**
5.019	50.6.1.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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						
	Ground floor	1.00000	121.050	0.200	3.000		72.630
	Parapet wall	1.00000	72.000	0.200	0.750		10.800
	First floor	1.00000	87.500	0.200	3.000		52.500
	Parapet wall	1.00000	47.000	0.200	0.750		7.050
	Deduction - Lintel GF	-1.00000	121.050	0.200	0.150		-3.632
	Deduction - Lintel FF	-1.00000	87.500	0.200	0.150		-2.625
	Deduction - Rolling shutter	-2.00000	3.000	0.200	2.800		-3.360
	Deduction - Rolling shutter	-1.00000	1.500	0.200	2.100		-0.630
	Deduction - Jalli work	-2.00000	3.000	0.200	1.800		-2.160
	Deduction - Opening	-1.00000	1.200	0.200	2.100		-0.504
	Deduction -Door	-4.00000	0.800	0.200	2.100		-1.344
	Deduction -Door	-5.00000	0.900	0.200	2.100		-1.890
	Deduction - Door& window	-1.00000	2.000	0.200	2.100		-0.840
	Deduction - window	-19.00000	1.500	0.200	1.400		-7.980
	Deduction - ventilator	-2.00000	1.000	0.200	0.600		-0.240

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Deduction - column width	-43.00000	0.300	0.200	3.000		-7.740
	Total						**110.035**
						Total Quantity in cum	**110.035**
5.020	5.18.2						
	Providing precast cement concrete jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits.40 mm thick						
	Providing jali work						
	jali work	2.00000	3.000	1.800			10.800
	Total						**10.800**
						Total Quantity in sqm	**10.800**
5.021	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	Cement plastering 12mm thick 1:4						
	column - filter bed	12.00000	2.100		3.800		95.760
	column - filter bed	4.00000	1.200		3.800		18.240
	column - filter bed	6.00000	1.200		2.170		15.624
	column - GF	26.00000	2.100		4.000		218.400
	column - GF	5.00000	1.200		4.000		24.000
	column - GF	16.00000	1.500		3.000		72.000
	GF - out side wall	1.00000	72.000		3.000		216.000
	GF - out side wall	1.00000	70.400		3.000		211.200
	GF -wall - lobby	1.00000	7.18+3.45+3.85+3.85		3.000		54.990
	GF -wall -blower	1.00000	14.800		3.000		44.400
	GF -wall - Chlorine room	1.00000	4.07+4.07+4.07+7.18		4.000		77.560

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	GF -wall - Chemical room	1.00000	9.330		4.000		37.320
	GF -wall -Toilet & wash	2.00000	16.760		4.000		134.080
	filter bed floor slab	1.00000	11.500	8.300			95.450
	Clear water channel bottom	1.00000	12.320	0.900			11.088
	Clear water channel side	4.00000	12.320	1.000			49.280
	filter bed including pipe gallery -side wall	3.00000	11.500	3.820			131.790
	filter bed including pipe gallery -side wall	4.00000	8.300	3.820			126.824
	filter bed including pipe gallery -side wall	4.00000	4.450	3.000			53.400
	gullet wall	2.00000	11.500	3.720			85.560
	W/W trough- slab	6.00000	3.000	0.600			10.800
	W/W trough- side wall	24.00000	3.000	0.300			21.600
	Filter bed - roof beam	3.00000	11.500	1.650			56.925
	Filter bed - roof beam	4.00000	8.300	1.650			54.780
	GF - roof beam	2.00000	16.330	1.200			39.192
	GF - roof beam	2.00000	12.280	1.200			29.472
	GF - roof beam	1.00000	8.400	1.200			10.080
	GF - roof beam	3.00000	11.500	1.200			41.400
	GF - roof beam	1.00000	4.030	1.200			4.836
	GF - roof beam	1.00000	3.300	1.200			3.960
	GF - Sunshade	1.00000	81.000	0.700			56.700
	parapet wall	1.00000	72.000	1.700			122.400

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	GF - ceiling and roof top	2.00000	291.070				582.140
	FF - wall - outside and inside	2.00000	47.000	3.000			282.000
	FF - wall - long wall	4.00000	12.000	3.000			144.000
	FF - wall - short wall	4.00000	11.100	3.000			133.200
	FF - wall - toilet	2.00000	1.520	3.000			9.120
	GF - wall - alum lime tank	8.00000	1.500	3.000			36.000
	GF - wall - alum lime room	3.00000	4.300	3.000			38.700
	FF - roof beam	4.00000	12.400	1.200			59.520
	FF - roof beam	4.00000	11.500	1.200			55.200
	FF - roof beam	1.00000	4.350	1.200			5.220
	FF - sunshade	1.00000	50.200	1.300			65.260
	FF - roof ceiling and top	2.00000	133.200				266.400
	Parapet wall	2.00000	47.000	1.700			159.800
	Back wash water tank - side wall	1.00000	24.160		3.400		82.144
	Back wash water tank - side wall inside	1.00000	22.160		2.400		53.184
	Back wash water tank - cover slab	1.00000	8.380	4.900			41.062
	Back wash water tank - cover slab - sides	1.00000	26.560		0.150		3.984
	Back wash water tank - beams	1.00000	3.650		0.900		3.285
	deduction - Rolling shutter	-2.00000	3.000	2.800			-16.800
	deduction - Rolling shutter	-1.00000	1.500	2.100			-3.150

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	deduction - Jalli work	-2.00000	3.000	1.800			-10.800
	deduction - opening	-1.00000	1.200	2.100			-2.520
	deduction - Door& window	-1.00000	2.000	2.100			-4.200
	deduction - Door	-4.00000	0.800	2.100			-6.720
	deduction - Door	-5.00000	0.900	2.100			-9.450
	deduction - window	-19.00000	1.500	1.400			-39.900
	deduction - ventilators	-2.00000	1.000	0.600			-1.200
	Total						**4150.590**
						Total Quantity in sqm	**4150.590**
5.022	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Applying one coat of cement primer						
	Qnty same as item no. 18	1.00000	4150.590				4150.590
	Deduction - Back wash water tank - side wall inside	-1.00000	22.160		2.400		-53.184
	Deduction - Back wash water tank - side wall - Beam	-1.00000	3.650		0.900		-3.285
	Total						**4094.121**
						Total Quantity in sqm	**4094.121**
5.023	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						
	Wall painting with acrylic emulsion paint						
	Qnty same as item no.22	1.00000	4094.121				4094.121
	Total						**4094.121**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in sqm	**4094.121**
5.024	10.25.2						
	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 work						
	For Ladder	2.00000			50.000		100.000
	For hand rail	1.00000			150.000		150.000
	Total						**250.000**
						Total Quantity in kg	**250.000**
5.025	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						
	Supplying and fixing rolling shutter						
	Supplying and fixing rolling shutter	2.00000	3.000	2.800			16.800
	Supplying and fixing rolling shutter	1.00000	1.500	2.100			3.150
	Total						**19.950**
						Total Quantity in sqm	**19.950**
5.026	13.48.3						
	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture						
	Steel painting						
	Rolling shutter	2.00000	3.000	2.500		2.40000	36.000
	Rolling shutter	1.00000	1.500	2.100		2.40000	7.560
	Total						**43.560**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in sqm	**43.560**
5.027	100.36.1						
	Filling water with 5000 litre tankers fited 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 appliences and cost of water etc. complete.						
	Filling with water						
	For back wash water tank	1.00000	79.000				79.000
	Total						**79.000**
						Total Quantity in Kilo litre	**79.000**
5.028	100.41.33						
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.						
	Supplying and fixing 500 mm dia CI MH indicator						
	For back wash water tank	2.00000					2.000
	Total						**2.000**
						Total Quantity in no	**2.000**
5.029	OD194246/2023-2024						
	Supply and Fitting 100 mm CI Vent cowl						
	Supply and Fiting 100 mm Vent cowl						
	Back wash water tank	4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
5.030	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, Aluminnium 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 portionPolyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)						
	providing Aluminium door and windows						
	Door & window-vertical	4.00000	2.100			0.580000	4.872

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Door & window-horizontal	2.00000	2.000			0.580000	2.320
	Door - vertical	10.00000	2.100			0.580000	12.180
	Door - horizontal	5.00000	0.900			0.580000	2.610
	Door - vertical	8.00000	2.100			0.580000	9.744
	Door - horizontal	8.00000	0.800			0.580000	3.712
	window- vertical	76.00000	1.400			0.580000	61.712
	window-horizontal	38.00000	1.500			0.580000	33.060
	Ventilator - vertical	6.00000	0.600			0.580000	2.088
	Ventilator-horizontal	4.00000	1.000			0.580000	2.320
	Total						**134.618**
						Total Quantity in kg	**134.618**
5.031	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						
	Providing glazing aluminium door & window shutter						
	Door & window	1.00000	1.000	2.100			2.100
	Door & window	2.00000	0.500	2.100			2.100
	Door	5.00000	0.900	2.100			9.450
	Door	4.00000	0.800	2.100			6.720
	Windows	57.00000	0.500	1.400			39.900
	Ventilator	4.00000	0.500	0.600			1.200
	Total						**61.470**
						Total Quantity in sqm	**61.470**
5.032	21.17						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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).						
	Providing Aluminium grill						
	Door & Windows	30.00000	0.500			0.25000	3.750
	Windows	190.00000	1.500			0.25000	71.250
	Ventilator	8.00000	1.000			0.25000	2.000
	Total						**77.000**
						Total Quantity in kg	**77.000**
5.033	11.41.4						
	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 1000x1000 mm						
	Laying vitrified floor tiles						
	G.F. Lobby	1.00000	3.800	7.330			27.854
	Blower	1.00000	3.850	3.550			13.668
	Filter slab	1.00000	11.500	8.300			95.450
	Filter slab deduction	-1.00000	1.750	9.500			-16.625
	Filter slab deduction	-3.00000	2.200	1.880			-12.408
	Main Stair case - steps	22.00000	1.300	0.300			8.580
	Main Stair case - steps	23.00000	1.300	0.150			4.485
	Main Stair case - landing	2.00000	1.300	1.300			3.380
	Main Stair case - side	1.00000	3.500	0.250			0.875
	Main Stair case - side	1.00000	2.300	0.250			0.575

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Main Stair case - side	1.00000	1.700	0.250			0.425
	FF -stair room	1.00000	7.830	1.500			11.745
	FF -lab	1.00000	11.100	3.780			41.958
	FF - Office	1.00000	3.980	3.530			14.049
	FF -Alum lime tank landing	1.00000	4.030	1.100			4.433
	FF -Alum lime steps landing	2.00000	1.100	1.100			2.420
	FF -Alum lime steps	24.00000	1.100	0.500			13.200
	FF -Alum lime slab side	1.00000	4.470	0.250			1.118
	FF -Alum lime slab side	1.00000	4.020	0.250			1.005
	FF -Main stair case- steps	22.00000	1.300	0.500			14.300
	FF -Main stair case- landing	2.00000	1.300	1.300			3.380
	FF -Main stair case-side	1.00000	3.500	0.250			0.875
	FF -Main stair case-side	1.00000	2.300	0.250			0.575
	FF -Main stair case-side	1.00000	1.700	0.250			0.425
	Total						**235.742**
						Total Quantity in sqm	**235.742**
5.034	11.39						
	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make in colours White, Ivory, Grey, fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.						
	Laying glazed ceramic floor tiles						
	GF. wash& toilet	2.00000	3.200	1.690			10.816
	FF. Toilet	1.00000	2.430	1.690			4.107
	FF. Toilet	1.00000	3.850	1.690			6.507
	Total						**21.430**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in sqm	**21.430**
5.035	11.36						
	Providing and fixing I st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.						
	Laying ceramic glazed wall tiles						
	Alum lime tank - side wall	8.00000	1.500	3.000			36.000
	Alum lime tank - side wall	3.00000	4.300	3.000			38.700
	W/W trough	6.00000	3.000	0.600			10.800
	W/W trough side wall	24.00000	3.000	0.300			21.600
	Filter - side walls	6.00000	3.000	3.500			63.000
	Gullet wall	2.00000	11.500	3.720			85.560
	GF. Toilet & wash	1.00000	17.110	3.000			51.330
	FF. Toilet	1.00000	11.860	3.000			35.580
	FF. Toilet	1.00000	10.280	3.000			30.840
	Total						**373.410**
						Total Quantity in sqm	**373.410**
5.036	16.89						
	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi models location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.						
	Laying mat finished vitrified tiles						
	Porch	1.00000	8.400	3.300			27.720
	Total						**27.720**
						Total Quantity in sqm	**27.720**
5.037	11.26.1						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1:4 (1 cement : 4 coarse sand)25 mm thick						
	Kota stone slab flooring						
	Chemical room	1.00000	8.030	3.570			28.667
	chlorine room	1.00000	3.980	7.330			29.173
	Total						**57.840**
						Total Quantity in sqm	**57.840**
5.038	10.26.2						
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer.E.R.W. tubes						
	Providing and fixing hand rails with E.R.W. tubes for hand rails offilter house, staircase and balcony.						
	40mm dia.	1.00000	150.000			3.250000	487.500
	15mm dia.	1.00000	500.000			0.952000	476.000
	Total						**963.500**
						Total Quantity in kg	**963.500**
5.039	13.71						
	Lettering with black Japan pint of approved brand and manufacture						
	Lettering						
	Lettering	300.00000			15.000		4500.000
	Total						**4500.000**
						Total Quantity in per Letter per cm height	**4500.000**
5.040	100.55.1						
	Supplying of 2 to 6 mm and 6 to 12 mm size fine pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5 km and labour charges for stacking, spreading, testing and as per the directions of the department officers etc. complete as per CPHEEO specifications.						
	Supplying,stacking and spreading fine pebbles						
	Fine pebbles	3.00000	3.500	3.000	0.200		6.300
	Total						**6.300**
						Total Quantity in cum	**6.300**
5.041	100.55.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying of 12 to 20mm size pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5km and labour charges for stacking, spreading, testing and as per the directions of the department officers etc complete and as per CPHEEO specification.						
	Supplying,stacking and spreading 12 to 20mm size pebbles						
	12 to 20mm size pebbles	3.00000	3.500	3.000	0.200		6.300
	Total						**6.300**
						Total Quantity in cum	**6.300**
5.042	100.55.3						
	Supplying of 20 to 40 mm pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5 km and labour charges for stacking, spreading, testing and as per directions of the department officers etc. complete and as per CPHEEO specification.						
	Supplying,stacking and spreading 20 to 40mm size pebbles						
	20 to 40mm size pebbles	3.00000	3.500	3.000	0.250		7.875
	Total						**7.875**
						Total Quantity in cum	**7.875**
5.043	100.55.4						
	Supplying and stacking for measurement of filter sand having effective size 0.45 to 0.70 mm and uniformity coefficient 1.30 to 1.7, of specific gravity in the range of 2.55 - 2.65 and hard and clean, free from clay, dust and other impurities including cost of materials, labour charges and conveyance of materials up to 5 km and as per the directions of the department officers etc. complete and as per CPHEEO specification.						
	Supplying,stacking and spreading filter sand						
	Filter sand	3.00000	3.500	3.000	0.750		23.625
	Total						**23.625**
						Total Quantity in cum	**23.625**
5.044	100.98.460						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.						
	Supply 150mm valve						
	Supply 150mm valve	1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
5.045	18.66.1						
	Providing and laying S&S.C.I Standard specials such as tees, bends, collars tapers and caps etc., suitable for flanged jointing as per IS: 1538:UPto 300 mm dia						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing DI specials						
	100 mm dia wall casting pipe	2.00000				0.20000	0.400
	150 mm dia wall casting pipe	2.00000				0.32000	0.640
	250 mm dia wall casting pipe	1.00000				0.66000	0.660
	Total						**1.700**
						Total Quantity in quintal	**1.700**
5.046	100.98.458						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.						
	Supply of 100mm DI sluice valve						
	100mm DI sluice valve	2.00000					2.000
	Total						**2.000**
						Total Quantity in no	**2.000**
5.047	100.31.1.4						
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 150mm diameter, Class I.						
	Fixing 150mm valve						
	Fixing 150mm valve	1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
5.048	100.31.1.2						
	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): 100mm diameter, Class I.						
	Laying of 100mm DI sluice valve						
	Laying of 100mm DI sluice valve	2.00000					2.000
	Total						**2.000**
						Total Quantity in no	**2.000**
5.049	OD194247/2023-2024						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying and providing water level indicator to the tank using scale fabricated out of 2 mm thick MS plate with in the frame work of suitable size MS square tube 160 mm pvc pipes for guiding the f;loat necessary pulleys suitable nylon thread for connecting the float and level indicator painting, the entire structure and lettering including the charges of material and labour						
	Supplying and providing water level indicator						
	water level indicator	1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
6	Clear water Sump						
6.001	OD194234/2023-2024						
	DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete						
	DOWEL BARS						
		1.00000	250.000				250.000
	Total						**250.000**
						Total Quantity in no	**250.000**
6.002	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 1:2:4 for levelling						
	for levelling Sump	1.00000	10.000	10.200	0.400		40.800
	Total						**40.800**
						Total Quantity in cum	**40.800**
6.003	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						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Sump -Floor slab	1.00000	9.800	10.000	0.300		29.400
	Sump -Haunch	0.50000	36.400	0.300	0.700		3.822
	Total						**33.222**
						Total Quantity in cum	**33.222**
6.004	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						
	Providing and laying in position machine batched and machine mixed design mix M-25 grade						
	side wall	1.00000	37.400	0.250	3.700		34.595
	Sump-columns	4.00000	0.300	0.300	3.400		1.224
	Sump-vertical haunch	4.00000	0.400	0.400	3.700		2.368
	Sump-Roof beams-long	2.00000	9.200	0.300	0.300		1.656
	Sump-Roof beams-Short	2.00000	8.400	0.300	0.300		1.512
	Roof Slab	1.00000	9.800	10.000	0.120		11.760
	Total						**53.115**
						Total Quantity in cum	**53.115**
6.005	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 providing richer mixes at all floor levels.						
	Floor slab	1.00000	29.400				29.400
	side wall	1.00000	34.595				34.595
	Haunch	1.00000	3.822				3.822

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Haunch vertical	1.00000	2.368				2.368
	columns	1.00000	1.224				1.224
	Total						**71.409**
						Total Quantity in cum	**71.409**
6.006	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						
	Foundation concrete-PCC	1.00000	40.400		0.400		16.160
	Foundation concrete-RCC-sump	1.00000	2*(9.8+10)		0.300		11.880
	Total						**28.040**
						Total Quantity in sqm	**28.040**
6.007	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.						
	Centering and shuttering						
	Side wall inside	1.00000	36.400		3.700		134.680
	Side wall outside	1.00000	38.400		3.700		142.080
	Total						**276.760**
						Total Quantity in sqm	**276.760**
6.008	5.9.6						
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts						
	Centering and shuttering						
	Sump -Columns	4.00000	1.200		3.370		16.176
	Total						**16.176**
						Total Quantity in sqm	**16.176**
6.009	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						
	Roof slab	1.00000	9.800	10.000			98.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Roof slab - sides	1.00000	39.600		0.200		7.920
	Total						**105.920**
						Total Quantity in sqm	**105.920**
6.010	5.9.5						
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers						
	Centering and shuttering						
	Sump roof beam-long	2.00000	9.200	0.960			17.664
	Sump roof beam-short	2.00000	9.000	0.960			17.280
	Total						**34.944**
						Total Quantity in sqm	**34.944**
6.011	5.22.6						
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more						
	Reinforcement						
	Qnty same as item no. 3&4	1.00000	33.222+53.115			120.000000	10360.440
	Total						**10360.440**
						Total Quantity in kilogram	**10360.440**
6.012	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						
	Solid block masonry						
	for parapet	1.00000	39.000	0.100	0.750		2.925
	Total						**2.925**
						Total Quantity in cum	**2.925**
6.013	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	12 mm cement plaster						
	Sump-Floor	1.00000	9.000	9.200			82.800
	Side wall-Inside	1.00000	36.400		3.700		134.680

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Side wall-Outside	1.00000	38.400		3.700		142.080
	Sump-column	4.00000	1.200		3.400		16.320
	Roof slab	1.00000	9.800	10.000			98.000
	beam	2.00000	9.200		0.900		16.560
	beam	2.00000	8.600		0.900		15.480
	Roof slab-sides	1.00000	39.600		0.200		7.920
	Parapet	1.00000	39.000		1.600		62.400
	Total						**576.240**
						Total Quantity in sqm	**576.240**
6.014	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, reservior, 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						
	Providing and applying integral crystalline slurry - Vertical						
	side wall	1.00000	36.400		3.700		134.680
	Columns	4.00000	1.200		3.400		16.320
	Total						**151.000**
						Total Quantity in sqm	**151.000**
6.015	22.23.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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, reservior, 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 horizontal surface one coat @1.10 kg per sqm.						
	Providing and applying integral crystalline slurry - Horizontal						
	floor slab	1.00000	9.000	9.200			82.800
	Total						**82.800**
						Total Quantity in sqm	**82.800**
6.016	13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	Applying one coat cement primer						
	Quantity same as item No 13	1.00000	576.240				576.240
	Deduction-sump inside	-1.00000	134.680				-134.680
	Deduction-sump floor	-1.00000	82.800				-82.800
	Deduction-sump columns	-1.00000	16.320				-16.320
	Deduction-roof beams	-1.00000	32.040				-32.040
	Total						**310.400**
						Total Quantity in sqm	**310.400**
6.017	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						
	Wall painting with acrylic emulsion paint						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Qnty same as item no. 13	1.00000	570.496				570.496
	Total						**570.496**
						Total Quantity in sqm	**570.496**
6.018	10.25.2						
	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 work						
	Ladder	1.00000				100.00000	100.000
	Total						**100.000**
						Total Quantity in kg	**100.000**
6.019	100.36.1						
	Filling water with 5000 litre tankers fited 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 appliences and cost of water etc. complete.						
	Filling water						
	Filling water	1.00000	270.000				270.000
	Total						**270.000**
						Total Quantity in Kilo litre	**270.000**
6.020	18.66.1						
	Providing and laying S&S.C.I Standard specials such as tees, bends, collars tapers and caps etc., suitable for flanged jointing as per IS: 1538:UPto 300 mm dia						
	providing wall casting pipe						
	250mm wall casting pipe	1.00000				0.85000	0.850
	Total						**0.850**
						Total Quantity in quintal	**0.850**
6.021	100.41.33						
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.						
	Man hole cover						
	Man hole cover	2.00000					2.000
	Total						**2.000**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in no	**2.000**
6.022	OD194235/2023-2024						
	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						
	Fixing water level indicator						
	Fixing water level indicator	1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
6.023	13.71						
	Lettering with black Japan pint of approved brand and manufacture						
	Lettering						
	Lettering	100.0000				15.00000	1500.000
	Total						**1500.000**
						Total Quantity in per Letter per cm height	**1500.000**
6.024	18.31.4.2						
	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 200 mm diameterClass II						
	Providing and fixing C.I. sluice valves						
	200 mm	1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
6.025	18.26.1						
	Providing and laying flanged C.I. Standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 :Upto 300 mm dia						
	Providing and laying flanged CI standard specials						
	200 mm wall casting pipe	2.00000				0.44200	0.884
	Total						**0.884**
						Total Quantity in quintal	**0.884**
6.026	OD194236/2023-2024						
	Supply and Fitting 100 mm CI Vent cowl						
	Supply and Fitting 100 mm Vent cowl						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		7.00000					7.000
	Total						**7.000**
						Total Quantity in no	**7.000**
7	Wash Water Arrangements to nearest safe drain/source after purification of wash water						
7.001	18.72.3						
	Providing and laying S & S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329:200 mm dia Ductile Iron Class K- 7 pipes						
	Providing and laying S & S Centrifugally Cast (Spun) / Ductile Iron Pipes						
		1.00000	120.000				120.000
	Total						**120.000**
						Total Quantity in metre	**120.000**
7.002	18.70.3						
	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes						
	Providing push-on-joints						
		1.00000	30.000				30.000
	Total						**30.000**
						Total Quantity in joint	**30.000**
7.003	OD194240/2023-2024						
	Labour for cutting C I/ D I pipe with steel saw. 200mm dia. D I pipe						
	Labour for cutting-200 mm DI						
		8.00000					8.000
	Total						**8.000**
						Total Quantity in Each Cut	**8.000**
7.004	18.68.1						
	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia						
	DI specials						
	200mm 90 degree	4.00000			0.320		1.280
	200mm TP	4.00000			0.230		0.920
	200x 200 tee	2.00000			0.410		0.820

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						**3.020**
						Total Quantity in quintal	**3.020**
7.005	100.98.485						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 200mm.						
	Supply of D/F sluice valve						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
7.006	100.31.2.5						
	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): 200mm diameter, Class II.						
	Conveying and fixing C.I. sluice valves						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
7.007	OD194241/2023-2024						
	DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete						
	Dowel bars						
		70.00000					70.000
	Total						**70.000**
						Total Quantity in no	**70.000**
7.008	100.35.3						
	Testing 200mm DI/CI pipeline with potable water to the required test pressure 200 mm dia Observed Data derived from item no.1020 of PHED DATA						
	Testing 200mm DI/CI pipeline						
		1.00000	120.000				120.000
	Total						**120.000**
						Total Quantity in metre	**120.000**
7.009	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)						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	P.C.C 1:2:3						
	Anchor block	6.00000	0.800	0.800	0.800		3.072
	Total						**3.072**
						Total Quantity in cum	**3.072**
7.010	5.1.3						
	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)						
	RCC 1:2:4						
	Anchor block	4.00000	1.000	1.000	1.000		4.000
	Total						**4.000**
						Total Quantity in cum	**4.000**
7.011	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.						
	Centering & shuttering						
	Anchor block	6.00000	3.200		0.800		15.360
	Anchor block	4.00000	4.000		1.000		16.000
	Total						**31.360**
						Total Quantity in sqm	**31.360**
7.012	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						
	Anchor block	1.00000	4.000			50.000000	200.000
	Total						**200.000**
						Total Quantity in kilogram	**200.000**
8	Water supply and Sanitary Arrangements						
8.001	50.18.7.1.1						
	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 15mm dia 12kgf/cm2 -Internal work- Exposed on wall						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.002	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						
	Providing and fixing PVC pipes, fittings including fixing the pipe with claps at 1.00 metre spacing						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.003	50.18.7.3.1						
	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 25 mm dia 12 Kgf/cm2 - Internal work - Exposed on wall						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing.						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.004	50.18.7.4.1						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm2- Internal work - Exposed on wall						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing.						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.005	50.18.7.5.1						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm2- Internal work- exposed on wall						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing.						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.006	50.18.7.6.1						
	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 50 mm dia 10 Kfg/cm - Internal work- Exposed on wall						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing.						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.007	50.18.8.1.1						
	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 chases and making good the wall etc. 15 mm pipe 12 Kgf/ cm2						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing.						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.008	50.18.8.2.1						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chased and making good the wall etc. 20 mm pipe 12 Kgf/cm2						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing.						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.009	50.18.8.3.1						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	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 chases and making good the wall etc. 25 mm pipe 12 kgf/cm2						
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing.						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.010	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						
	Providing and fixing PTMT, push cock						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.011	18.64						
	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms.						
	Providing and fixing PTMT swivelling shower,						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
8.012	100.1.1						
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.						
	Excavating trenches of required width for pipes, cables,						
		1.00000	100.000	0.300	0.600		18.000
	Total						**18.000**
						Total Quantity in cum	**18.000**
8.013	100.9.1						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 20 mm nominal outside diameter pipes.						
	Laying UPVC pipes of 20mm						
		1.00000	30.000				30.000
	Total						**30.000**
						Total Quantity in metre	**30.000**
8.014	100.9.2						
	Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 25 mm nominal outside diameter pipes.						
	Laying UPVC pipes of class 2 to class 6 and specials,						
	25 mm dia	1.00000	30.000				30.000
	Total						**30.000**
						Total Quantity in metre	**30.000**
8.015	100.98.229						
	Supply of PVC Pipe, 10kg/cm2, 20mm Dia.						
	Supply of uPVC Pipe, IS 4985: 2000 , 10kg/cm2, 20mm.						
		1.00000	30.000				30.000
	Total						**30.000**
						Total Quantity in metre	**30.000**
8.016	100.98.230						
	Supply of PVC Pipe, 10kg/cm2, 25mm Dia.						
	Supply of uPVC Pipe, IS 4985: 2000 , 10kg/cm2, 25mm.						
		1.00000	30.000				30.000
	Total						**30.000**
						Total Quantity in metre	**30.000**
8.017	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						
	Providing and fixing European type WC						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and fixing European type WC	3.00000					3.000
	Total						**3.000**
						Total Quantity in each	**3.000**
8.018	50.17.1.3						
	Supplying and fixing CP Towel rod 60cm or nearest available length including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.						
	Supplying and fixing CP towel rod						
	Supplying and fixing CP towel rod	4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
8.019	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.						
	Supplying and fixingstainless steel soap dish						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
8.020	50.17.1.5						
	Supplying and fixing CP Health Faucet superior quality (Jagur or equvalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.						
	Supplying and fixing CP Health Faucet superior quality						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
8.021	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						
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste						
		4.00000					4.000
	Total						**4.000**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in each	**4.000**
8.022	17.11.2						
	Providing and fixing white vitreous china laboratory sink with C.I brackets, C.P. brass chain with rubber plug 40 mm C.P brass waste and 40 mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required:Size 600x450x200 mm						
	Providing and fixing white vitreous china laboratory sink with C.I brackets						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.023	17.28.1.1						
	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe32 mm dia						
	Providing and fixing P.V.C. waste pipe						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.024	17.28.1.2						
	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe40 mm dia						
	Providing and fixing P.V.C. waste pipe						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.025	17.28.2.1						
	Flexible pipe32 mm dia						
	Flexible pipe32 mm dia						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.026	17.28.2.2						
	Flexible pipe40 mm dia						
	Flexible pipe40 mm dia						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.027	17.34.1						
	Providing and fixing toilet paper holder:C.P. brass						
	Providing and fixing toilet paper holder:C.P. brass						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
8.028	17.35.1.1						
	Providing and fixing soil, waste and vent pipes: 100 mm diaSand cast iron S & S pipe as per IS : 1729						
	Providing and fixing soil, waste and vent pipes:100 mm diaSand cast iron S & S pipe						
		1.00000	30.000				30.000
	Total						**30.000**
						Total Quantity in metre	**30.000**
8.029	17.35.1.2						
	Providing and fixing soil, waste and vent pipes: 100 mm diaCentrifugally cast (spun) iron socket & spigot (S & S) pipe as per IS : 3989						
	Providing and fixing soil, waste and vent pipes:100 mm dia						
		1.00000	30.000				30.000
	Total						**30.000**
						Total Quantity in metre	**30.000**
8.030	17.60.1.1						
	Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outletSand cast iron S & S as per IS : 3989						
	Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete,						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.031	17.71						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms						
	Providing and fixing PTMT liquid soap container						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in each	**4.000**
8.032	18.33.1						
	Constructing masonry chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement:4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:With common burnt clay F.P.S (non modular) bricks of class designation 7.5						
	Constructing masonry chamber						
		6.00000					6.000
	Total						**6.000**
						Total Quantity in each	**6.000**
8.033	19.9.1.1						
	Constructing brick masonry circular type manhole 0.91 m internal dia at bottam and 0.56 m dia at to[in cement mortar 1:4 (1 cement : 4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement:2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design: 0.91 m deep with S.F.R.C cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to IS: 12592, total weight of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately):With cement burnt clay F.P.S. (non modular) bricks of class designation 7.5						
	Constructing brick masonry circular type manhole						
		6.00000					6.000
	Total						**6.000**
						Total Quantity in each	**6.000**
8.034	18.8.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes& fittings, with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc.20 mm nominal outer dia pipes						
	Supplying, covey ,fitting ,concealed and fixing 20 mm CPVC						
		50.00000					50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.035	OD194224/2023-2024						
	Supplying, covey ,fitting and fixing 15 mm chrome plated angle valve with branch connection of approved make (As per ASTM D 2467, Schedule 80). complete in all respect including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials.						
	Supplying, covey ,fitting and fixing 15 mm chrome plated angle valve with branch connection						
		6.00000					6.000
	Total						**6.000**
						Total Quantity in no	**6.000**
8.036	OD194225/2023-2024						
	Supplying, covey ,fitting and fixing 25 mm 25mm chrome plated angle valve of approved make (As per ASTM D 2467, Schedule 80). complete in all respect including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials.						
	Supplying, covey ,fitting and fixing 25 mm 25mm chrome plated angle valve						
		6.00000					6.000
	Total						**6.000**
						Total Quantity in no	**6.000**
8.037	OD194226/2023-2024						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying, covey ,fitting ,concealed and fixing 25 mm CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 . with all necessary accessories, specials viz. Brass socket, Brass bend, MALE BRASS UNION ,TRANSITION COUPLING ,END CAP,REDUCER BUSHING,MALE BRASS TEE,MALE ADAPTOR (BRASS THREADS),MALE ADAPTOR (BRASS THREADS) ,REDUCING MALE ADAPTOR (BRASS THREADS),FEMALE ADAPTOR (BRASS THREADS),REDUCING BRASS COUPLING,MALE BRASS UNION,FEMALE BRASS UNION,COUPLING,all types of bends,Brass tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece ,Brass threaded reducer,Brass threaded tee ,Brass threaded elbow etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required,jointing materials in any position for connecting the angle valve ,taps,Shower, etc as per the direction of Departmental officers. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials.						
	Supplying, covey ,fitting ,concealed and fixing 25 mm CPVC						
		1.00000	50.000				50.000
	Total						**50.000**
						Total Quantity in metre	**50.000**
8.038	OD194227/2023-2024						
	Supplying, covey ,fitting , and fixing of 15 mm Stainless Steel tap set with all accessories connecting Brass threaded reducer,Brass threaded tee ,Brass threaded elbow etc of approved make with all necessary accessories,including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required,jointing materials in any position for connecting the angle valve ,taps ,Shower, etc as per the direction of Departmental officers. (No separate payment will be made for accessories, specials.						
	Supplying, covey ,fitting , and fixing of 15 mm Stainless Steel tap set with all accessories<						
		8.00000					8.000
	Total						**8.000**
						Total Quantity in no	**8.000**
8.039	OD194228/2023-2024						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying, covey ,fitting , and fixing of 200 mm Stainless Steel shower set with all accessories connecting Brass threaded reducer,Brass threaded tee ,Brass threaded elbow etc of approved make with all necessary accessories,including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required,jointing materials in any position for connecting the angle valve ,taps ,Shower, etc as per the direction of Departmental officers. (No separate payment will be made for accessories, specials.						
	Supplying, covey ,fitting , and fixing of 200 mm Stainless Steel shower						
		4.00000					4.000
	Total						**4.000**
						Total Quantity in no	**4.000**
8.040	OD194229/2023-2024						
	:Supplying, covey ,and fixing 50 mm G.M. ball valve with polythene float for 50 mm connection (heavy quality) including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials.						
	Supplying, covey ,and fixing 50 mm G.M. ball valve with polythene float for 50 mm connection<						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
8.041	OD194230/2023-2024						
	:Supplying, covey ,and fixing 40 mm G.M ball valve with polythene float for 40 mm connection (heavy quality) including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials.						
	Supplying, covey ,and fixing 40 mm G.M ball valve with polythene float for 40 mm connection<						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
8.042	OD194231/2023-2024						
	Supplying, covey ,and fixing 32 mm G.M. ball valve with polythene float for 32 mm connection(heavy quality including cost of all necessary fittings as required,jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials.						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying, covey ,and fixing 32 mm G.M. ball valve with polythene float for 32 mm<						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
8.043	18.18.3						
	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:25 mm nominal bore						
	Supplying, covey ,and fixing of 25 mm G.M. ball valve						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in each	**1.000**
8.044	18.18.2						
	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore						
	20mm Ball valve with float						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in each	**1.000**
8.045	OD194232/2023-2024						
	Supply and erection of concrete Septic tank						
	Supply and erection of concrete Septic tank						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
9	Mechanical and Electrical work						
9.001	OD194237/2023-2024						
	Mechanical items and Electrification works - 25% of total amount.Supply and installation of clarifier bridge , Alum lime agitator motors,Blower pump set,Loss of head gauges, water level indicator, Flow meters including pipes ,valves and specials in pipe gallery including all items etc as per direction of department officers						
	Mechanical items and Electrification works						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in L.S	**1.000**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
10	Operation and Maintanance charges						
10.001	OD194248/2023-2024						
	Engaging Pump operator						
	Engaging Pump operator						
		2.00000	540.000				1080.000
	Total						**1080.000**
						Total Quantity in no	**1080.000**
10.002	OD194249/2023-2024						
	Engaging Man mazdoor						
	Engaging Man mazdoor						
		2.00000	540.000				1080.000
	Total						**1080.000**
						Total Quantity in no	**1080.000**
10.003	OD194250/2023-2024						
	Engaging Gardener						
	Engaging Gardener						
		0.50000	540.000				270.000
	Total						**270.000**
						Total Quantity in no	**270.000**
10.004	OD194251/2023-2024						
	Supply and delivery of Alum						
	Supply and delivery of Alum						
	For 18 months	1.00000	16.200				16.200
	Total						**16.200**
						Total Quantity in MT	**16.200**
10.005	OD194252/2023-2024						
	Supply and delivery of Lime.						
	Supply and delivery of Lime.						
	For 18 months	1.00000	12.800				12.800
	Total						**12.800**
						Total Quantity in MT	**12.800**
10.006	OD194253/2023-2024						
	Supply and delivery of Chlorine gas cylinder.						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply and delivery of Chlorine gas cylinder.						
		10.00000					10.000
	Total						**10.000**
						Total Quantity in no	**10.000**
11	INSTALLATION OF FIRE HYDRANT						
11.001	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						
	Fire hydrant						
	Fire hydrant	1.00000	1.500	1.500	1.500		3.375
	Total						**3.375**
						Total Quantity in cum	**3.375**
11.002	100.8.2						
	Fencing 1.50m high with two rows of casuarina poles (girth 15cm to 24cm) tied with coir yarn on vertical casuarina pole (girth 15cm to 24cm) fixed at 1.5m intervals.						
	Fencing 1.50m high with two rows of casuarina poles (girth 15cm to 24cm) tied with coir yarn on vertical casuarina pole (girth 15cm to 24cm) fixed at 1.5m intervals.						
		1.00000	6.000				6.000
	Total						**6.000**
						Total Quantity in metre	**6.000**
11.003	2.16.1						
	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete (Measurements to be taken of the face area timbered).Depth not exceeding 1.5m						
	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete						
		1.00000	6.000		1.500		9.000
	Total						**9.000**
						Total Quantity in sqm	**9.000**
11.004	7.1.1						
	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)						
	RR Masonry						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		1.00000	1.000	1.000	0.600		0.600
	Total						**0.600**
						Total Quantity in cum	**0.600**
11.005	6.3.1						
	Brick work with common burnt clay machine perforated bricks of classdesignation 12.5 conforming to IS: 2222 in superstructure above plinth level up tofloor five level in cement mortar 1:6 (1 cement : 6 coarse sand):With F.P.S. (non modular) bricks						
	Brick work with common burnt clay machine						
		1.00000	2.800	0.120	0.600		0.202
	Total						**0.202**
						Total Quantity in cum	**0.202**
11.006	4.2.3						
	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts,buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc. up to floor five level, excluding the cost of centering, shuttering and finishing:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)						
	providing and laying cement concrete						
	Anchor block	2.00000	1.000	1.000	1.000		2.000
	Total						**2.000**
						Total Quantity in cum	**2.000**
11.007	5.9.15						
	Centering and shuttering including strutting, etc. and removal of form for:Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like						
	Centering and shuttering including strutting, etc. and removal of form						
		2.00000	4.000		1.000		8.000
	Total						**8.000**
						Total Quantity in sqm	**8.000**
11.008	100.12.9						
	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc., but excluding cost of pipes and fittings for External work: 100mm diameter nominal bore.						
	Conveying and fixing G.I. pipes						
		1.00000	3.000				3.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						**3.000**
						Total Quantity in metre	**3.000**
11.009	100.31.1.2						
	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): 100mm diameter, Class I.						
	Conveying and fixing C.I. sluice valves						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
11.010	13.1.1						
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)						
	12 mm cement plaster mix						
	Fire hydrant brick box-inner	1.00000	2.200		0.600		1.320
	outer	1.00000	2.700		0.600		1.620
		1.00000	2.700	0.120			0.324
	Total						**3.264**
						Total Quantity in sqm	**3.264**
11.011	100.98.458						
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.						
	Supply of CI Double Flanged Sluice Valve						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in no	**1.000**
11.012	OD204162/2023-2024						
	Supplying and fixing Pillar Hydrant Unit						
	Supplying and fixing Pillar Hydrant Unit						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in each	**1.000**
11.013	OD204167/2023-2024						
	Supply of 100 mm GI pipe (Medium)						
	Supplying and fixing Pillar Hydrant Unit						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
		1.00000	3.000				3.000
	Total						**3.000**
						Total Quantity in metre	**3.000**
12	Providing and setting up Laboratory						
12.001	OD196836/2023-2024						
	Setting up of Lab						
	Setting up of Lab						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in job	**1.000**
13	External yard Lighting						
13.001	OD204351/2023-2024						
	Lighting Switch Board (LSB):- Design, engineering, supply, erection, testing and commissioning of medium voltage sheet steel clad, totally enclosed, dust tight & vermin proof, indoor floor mounted cubicle type switchboard fabricated out of 14 swg mild steel sheet and bus duct of high conductivity aluminium bus bars, PVC sleeved, air insulated and of adequate size as mentioned, for operation on 3 phase, 4 wire, 415 volts, 50 Hz. AC supply system. The MCCB/SFUs, all meters and relays etc. should be reputed make and conforming IS specifications and are assembled, interconnected, earthed and the switch board should be painted with anti-rust primer coating followed by two coats of paint of approved shade, by Kerala Electrical Inspectorate and relevant standards 250A TPN bus bars of sizes: Phase : 50 x 8 mm Al-flat Neutral : 50 x 6 mm Al-flat Earthing conductor : 25 x 3 mm copper 1No 250 A TPN Isolator as incomer, 63 A TPN SFU 4 Nos. as outgoings. Metering compartments comprising of voltmeter, ammeter, selector switches, indicating lamps etc. complete as per KEI Standards						
	LSB						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in each	**1.000**
13.002	OD204352/2023-2024						
	Lighting Distribution board (LDB-I &2), Supply,erection, testing and commissioning of MCB distribution board comprising to the following. 40A TPN 4 pole MCB 1 No. as incomer with 40A 30mA ELCB, 18 nos 6 AMPS SP MCB as outgoings, With tinned copper busbars/cables, interconnection, housed in a suitable metal enclosure as per KEI standards fixed in open system						
	LDB 1 &2						
		2.00000					2.000
	Total						**2.000**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in no	**2.000**
13.003	OD194260/2023-2024						
	Cabling : Supply, laying, testing and commissioning of the following size PVC/XLPE insulated, sheathed armoured Aluminium conductor cable (1100/11000 Volts grade) clamped on wall/ceiling with clamps and saddle clips partly laid in cable tray/partly laid in trench. 4 core 16 Sq.mm PVC/XLPE AL Cable (LSB to LDB)						
	Cabling						
	4 core 16 Sq.mm PVC/XLPE AL Cable (LSB to LDB)	150.0000					150.000
	Total						**150.000**
						Total Quantity in set	**150.000**
13.004	OD194261/2023-2024						
	Cabling : Supply, laying, testing and commissioning of the following size PVC/XLPE insulated, sheathed armoured Aluminium conductor cable (1100/11000 Volts grade) clamped on wall/ceiling with clamps and saddle clips partly laid in cable tray/partly laid in trench.- 3 core 6 Sq.mm PVC/XLPE AL Cable (LDB to Streat Lights)						
	Cabling						
	3 core 6 Sq.mm PVC/XLPE AL Cable (LDB to Streat Lights)	300.0000					300.000
	Total						**300.000**
						Total Quantity in metre	**300.000**
13.005	OD194262/2023-2024						
	Cabling : Supply of all materials and providing end termination of the following size PVC/XLPE insulated, sheathed armoured Aluminium conductor cable (1100 /11000volts grade) for giving power connections to Transformers, Panel Boards etc. complete as per standards. 4 core 16 Sq.mm PVC/XLPE AL Cable						
	Cabling- Supply of all materials and providing end termination						
	4 core 16 Sq.mm PVC/XLPE AL Cable	8.00000					8.000
	Total						**8.000**
						Total Quantity in set	**8.000**
13.006	OD194276/2023-2024						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Cabling: Supply of all materials and providing end termination of the following size PVC/XLPE insulated, sheathed armoured Aluminium conductor cable (1100 /11000volts grade) for giving power connections to Transformers, Panel Boards etc. complete as per standards.-3 core 6 Sq.mm PVC/XLPE AL Cable						
	Cabling: Supply of all materials and providing end termination						
	3 core 6 Sq.mm PVC/XLPE AL Cable	40.00000					40.000
	Total						**40.000**
						Total Quantity in no	**40.000**
13.007	OD194277/2023-2024						
	External Lighting: Supplying, erection and testing steel tubular swaged poles as per IS 2713 (Part II) - 1980 of height 7.5M above ground level and 1.5M below ground level bottom 139.7 mm dia and 114.3 mm dia for middle and 88.9 mm dia for top including providing base plate providing concreting in foundation, construction of pillar accomodating fuse and switch housed in weather proof box including wiring to the light fitting with 2 runs of 3/20 PVC insulated copper conductor. Supplying and fixing a 4 way 30 A rated terminal block include the weather proof box. The pole shall be painted with one coat of primer and two coats of enamel paint as required by the Engineer in charge. The street pole shall be as per the drawing enclosed.-Single Bracket Type						
	External Lighting:						
	Single Bracket Type	15.00000					15.000
	Total						**15.000**
						Total Quantity in no	**15.000**
13.008	OD194278/2023-2024						
	External Lighting: Supplying, erection and testing steel tubular swaged poles as per IS 2713 (Part II) - 1980 of height 7.5M above ground level and 1.5M below ground level bottom 139.7 mm dia and 114.3 mm dia for middle and 88.9 mm dia for top including providing base plate providing concreting in foundation, construction of pillar accomodating fuse and switch housed in weather proof box including wiring to the light fitting with 2 runs of 3/20 PVC insulated copper conductor. Supplying and fixing a 4 way 30 A rated terminal block include the weather proof box. The pole shall be painted with one coat of primer and two coats of enamel paint as required by the Engineer in charge. The street pole shall be as per the drawing enclosed -Double Bracket Type						
	External Lighting						
	Double Bracket Type	5.00000					5.000
	Total						**5.000**
						Total Quantity in no	**5.000**
13.009	OD194279/2023-2024						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	External Lighting: Supplying and fixing street light fittings with all accessories and 100 watts LED lamp fixed with above poles.						
	External Lighting: Supplying and fixing street light fittings with all accessories and 100 watts LED lamp fixed with above poles.						
		25.00000					25.000
	Total						**25.000**
						Total Quantity in no	**25.000**
13.010	OD194300/2023-2024						
	External Lighting: Supplying and fixing light fittings over compound wall allround the WTP yard with all accessories and 20 watts LED lamp fixed with above poles.						
	External Lighting: Supplying and fixing light fittings over compound wall allround the WTP yard with all accessories and 20 watts LED						
		20.00000					20.000
	Total						**20.000**
						Total Quantity in no	**20.000**
13.011	OD194301/2023-2024						
	Safety Items: Supply and providing safety items as per Kerala Electrical Inspectorate and relevant standards. 2nos 1800X900X12mm 11KV rubber mat 2sets 11KV Hand Gloves 6nos. 11KV Danger board 1set Fire bucket with stand 2sets First aid box 2sets Shock treatment chart 2sets Fire extinguisher 5kg						
	Safety Items: Supply and providing safety items as per Kerala Electrical Inspectorate and relevant standards						
		1.00000					1.000
	Total						**1.000**
						Total Quantity in set	**1.000**
14	Land Scaping, Gardening, Site levelling after construction						
14.001	OD194304/2023-2024						
	Land Scaping, Gardening, Site levelling after construction						
	Land Scaping, Gardening, Site levelling after construction						
		1.00000					1.000
	Total						**1.000**

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
						Total Quantity in job	**1.000**
14.002	16.91.2						
	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.						
	Providing and laying factory made chamfered edge Cement Concrete paver blocksin footpath						
		1.00000	420.000				420.000
	Total						**420.000**
						Total Quantity in sqm	**420.000**
14.003	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						
	Filling with contractor's own red earth						
		1.00000	175.000				175.000
	Total						**175.000**
						Total Quantity in cum	**175.000**